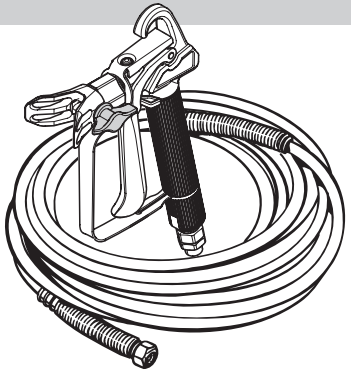
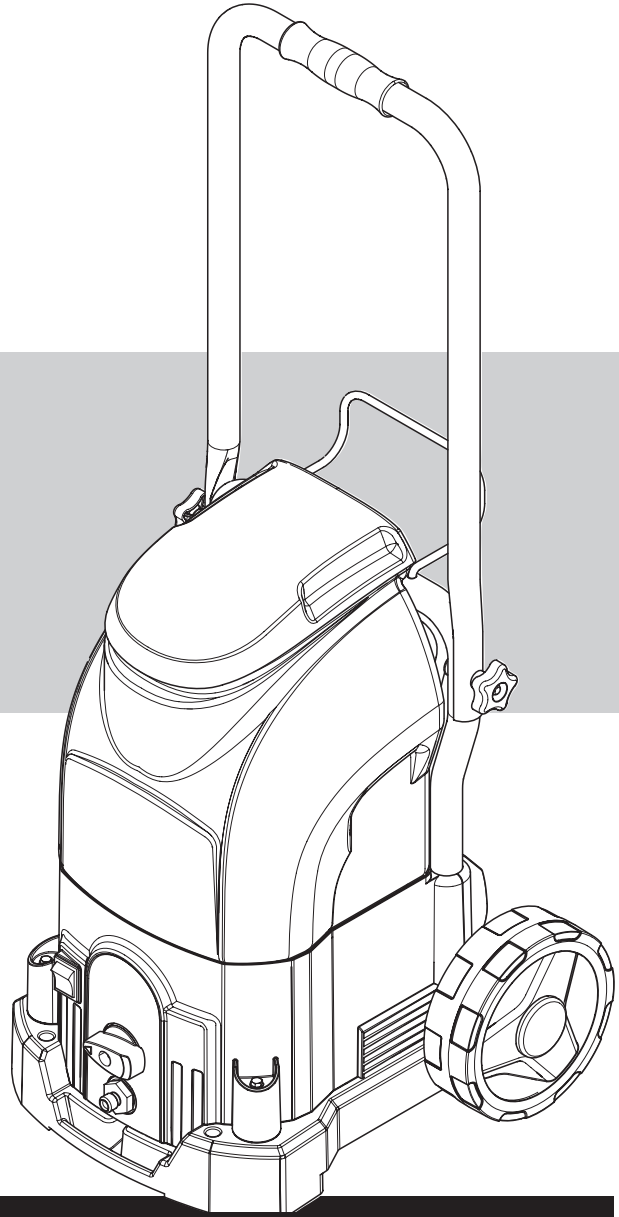
WAGNER®

PAINT CREW® PLUS





Owner's Manual

Read this manual for complete instructions

Français (page 25) / Español (página 49)

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Questions?

Call Wagner Technical Service at:

1-800-328-8251

Register your product online at:

www.wagnerspraytech.com

Proper registration will serve as proof of purchase in the event your original receipt becomes misplaced or lost.

0312 • Form No. 0504923G

Español | Français | English

Important Safety Information

Read all safety information before operating the equipment. Save these instructions

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

a) To reduce the risks of fire or explosion, electrical shock and the injury to persons, read and understand all instructions included in this manual. Be familiar with the controls and proper usage of the equipment.

Grounding Instructions

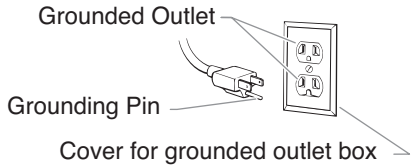
This product must be grounded. In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product is equipped with a cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

WARNING - Improper installation of the grounding plug can result in a risk of electric shock.

If repair or replacement of the cord or plug is necessary, do not connect the green grounding wire to either flat blade terminal. The wire with insulation having a green outer surface with or without yellow stripes is the grounding wire and must be connected to the grounding pin.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if you are in doubt as to whether the product is properly grounded. Do not modify the plug provided. If the plug will not fit the outlet, have the proper outlet installed by a qualified electrician.

This product is for use on a nominal 120 volt circuit and has a grounding plug that looks like the plug illustrated below. Make sure that the product is connected to an outlet having the same configuration as the plug. No adapter should be used with this product.



b) WARNING - To reduce the risk of fire or explosion:

1. Do not spray flammable or combustible materials near an open flame, pilot lights or sources of ignition such as hot objects, cigarettes, motors, electrical equipment and electrical appliances. Avoid creating sparks from connecting and disconnecting power cords.
2. For units intended for use with only water-based materials — Do not spray or clean with flammable liquids. For use with water-based liquids only.
3. For units intended for use with only water-based or mineral spirit-type materials with a minimum flash point of 21ºC (69.8ºF) — Do not spray or clean with liquids having a flash point of less than 21ºC (69.8ºF). Flash point is the temperature at which a fluid can produce enough vapor to ignite.
4. Paint or solvent flowing through the equipment is able to result in static electricity. Static electricity creates a risk of fire or explosion in the presence of paint or solvent fumes. All parts of the spray system, including the pump, hose assembly, spray gun and objects in and around the spray area shall be properly grounded to protect against static discharge and sparks. Use only conductive or grounded high-pressure airless paint sprayer hoses specified by the manufacturer.
5. Verify that all containers and collection systems are grounded to prevent static discharge.
6. Connect to a grounded outlet and use grounded extension cords (electric models only). Do not use a 3 to 2 adapter.
7. Do not use a paint or solvent containing halogenated hydrocarbons. Such as chlorine, bleach mildewcide, methylene chloride and trichloroethane. They are not compatible with aluminum. Contact the coating supplier about compatibility of material with aluminum.
8. Keep spray area well ventilated. Keep a good supply of fresh air moving through the area to keep the air within the spray area free from accumulation of flammable vapors. Keep pump assembly in well ventilated area. Do not spray pump assembly.
9. Do not smoke in the spray area.
10. Do not operate light switches, engines, or similar spark producing products in the spray area.
11. Keep area clean and free of paint or solvent containers, rags, and other flammable materials.
12. Know the contents of the paint and solvents being sprayed. Read all Material Safety Data Sheets (MSDS) and container labels provided with the paints and solvents. Follow the paint and solvent manufacture's safety instructions.
13. Place pump at least 25 feet (7.62 meters) from the spray object in a well ventilated area (add more hose if necessary). Flammable vapors are often heavier than air. Floor area must be extremely well ventilated. The pump contains arcing parts that emit sparks and can ignite vapors.
14. Plastic can cause static sparks. Never hang plastic to enclose spray area. Do not use plastic drop cloths when spraying flammable material.
15. Fire extinguisher equipment shall be present and working.

c) WARNING - To reduce the risk of skin injection:

1. Do not aim the gun at, or spray any person or animal.
2. Keep hands and other body parts away from the discharge. For example, do not try to stop leaks with any part of the body.
3. Always use the nozzle tip guard. Do not spray without the nozzle tip guard in place.
4. Only use a nozzle tip specified by the manufacturer.
5. Use caution when cleaning and changing nozzle tips. In the case where the nozzle tip clogs while spraying, ALWAYS lock gun trigger, shut pump off, and release all pressure before servicing, cleaning tip or guard, or changing tip. Pressure will not be released by turning off the motor. The PRIME/SPRAY valve or pressure bleed valve must be turned to their appropriate positions to relieve system pressure. Refer to PRESSURE RELIEF PROCEDURE described in the pump manual.
6. Do not leave the unit energized or under pressure while unattended. When the unit is not in use, turn off the unit and relieve the pressure in accordance with the manufacturer's instructions.

7. High-pressure spray is able to inject toxins into the body and cause serious bodily injury. In the event that injection occurs, seek medical attention immediately.
8. Check hoses and parts for signs of damage, a leak can inject material into the skin. Inspect hose before each use. Replace any damaged hoses or parts.
9. This system is capable of producing 2800 PSI / 193 Bar. Only use replacement parts or accessories that are specified by the manufacturer and that are rated a minimum of 2800 PSI. This includes spray tips, nozzle guards, guns, extensions, fittings, and hose.
10. Always engage the trigger lock when not spraying. Verify the trigger lock is functioning properly.
11. Verify that all connections are secure before operating the unit.
12. Know how to stop the unit and bleed pressure quickly. Be thoroughly familiar with the controls. Pressure will not be released by turning off the motor. The PRIME/SPRAY valve or pressure bleed valve must be turned to their appropriate positions to relieve system pressure. Refer to PRESSURE RELIEF PROCEDURE described in the pump manual.
13. Always remove the spray tip before flushing or cleaning the system.

NOTE TO PHYSICIAN:

Injection into the skin is a traumatic injury. It is important to treat the injury as soon as possible. DO NOT delay treatment to research toxicity. Toxicity is a concern with some coatings injected directly into the blood stream. Consultation with a plastic surgeon or reconstructive hand surgeon may be advisable.

d) WARNING - To reduce the risk of injury:

1. Always wear appropriate gloves, eye protection, clothing and a respirator or mask when painting. Hazardous vapors – Paints, solvents, insecticides, and other materials can be harmful if inhaled or come in contact with body. Vapors can cause severe nausea, fainting or poisoning.
2. Do not operate or spray near children. Keep children away from equipment at all times.
3. Do not overreach or stand on an unstable support. Keep effective footing and balance at all times.
4. Stay alert and watch what you are doing.
5. Do not operate the unit when fatigued or under the influence of drugs or alcohol.
6. Do not kink or over-bend the hose. Airless hose can develop leaks from wear, kinking and abuse. A leak can inject material into the skin.
7. Do not expose the hose to temperatures or pressures in excess of those specified by manufacturer.
8. Do not use the hose as a strength member to pull or lift the equipment.
9. Use lowest possible pressure to flush equipment.
10. Follow all appropriate local, state and national codes governing ventilation, fire prevention and operation.
11. The United States Government Safety Standards have been adopted under the Occupational Safety and Health Act (OSHA). These standards, particularly part 1910 of the General Standards and part 1926 of the Construction Standards should be consulted.
12. Before each use, check all hoses for cuts, leaks, abrasion or bulging of cover. Check for damage or movement of couplings. Immediately replace hose if any of those conditions exist. Never repair a paint hose. Replace with a conductive high-pressure hose.
13. Do not spray outdoors on windy days.
14. Always unplug cord from outlet before working on equipment (electric models only).

Important Electrical Information

IMPORTANT: Use only a 3-wire extension cord that has a 3-blade grounding plug and a 3-slot receptacle that will accept the plug on the product. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. A 14 or 12 gauge cord is recommended (see chart). If an extension cord is to be used outdoors, it must be marked with the suffix W-A after the cord type designation. For example, a designation of SJTW-A would indicate that the cord would be appropriate for outdoor use.

Cord gauge	Maximum cord length
12	150 feet
14	100 feet

Wagner Spray Tech accessory extension cords recommended:

P/N 0090241 20 foot extension cord

P/N 0090242 35 foot extension cord

Do not use more than 50 feet of spray hose. If you need to spray further than 50 feet away from your power source, use more extension cord, not more spray hose.

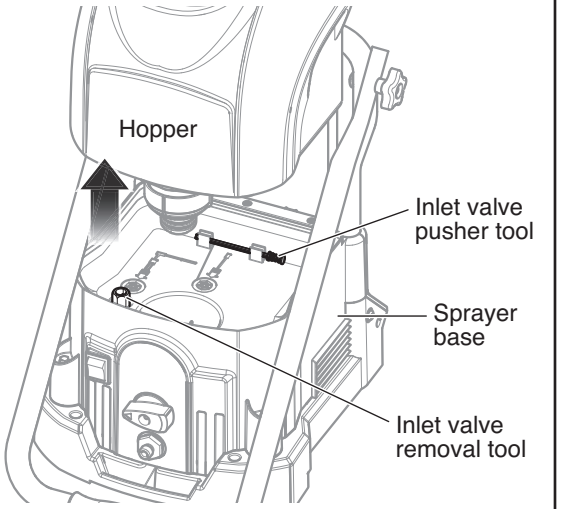
If you experience problems with your sprayer at any time during assembly, operation, or cleanup, please refer to the Troubleshooting section of this manual (page 22), or call customer service at:

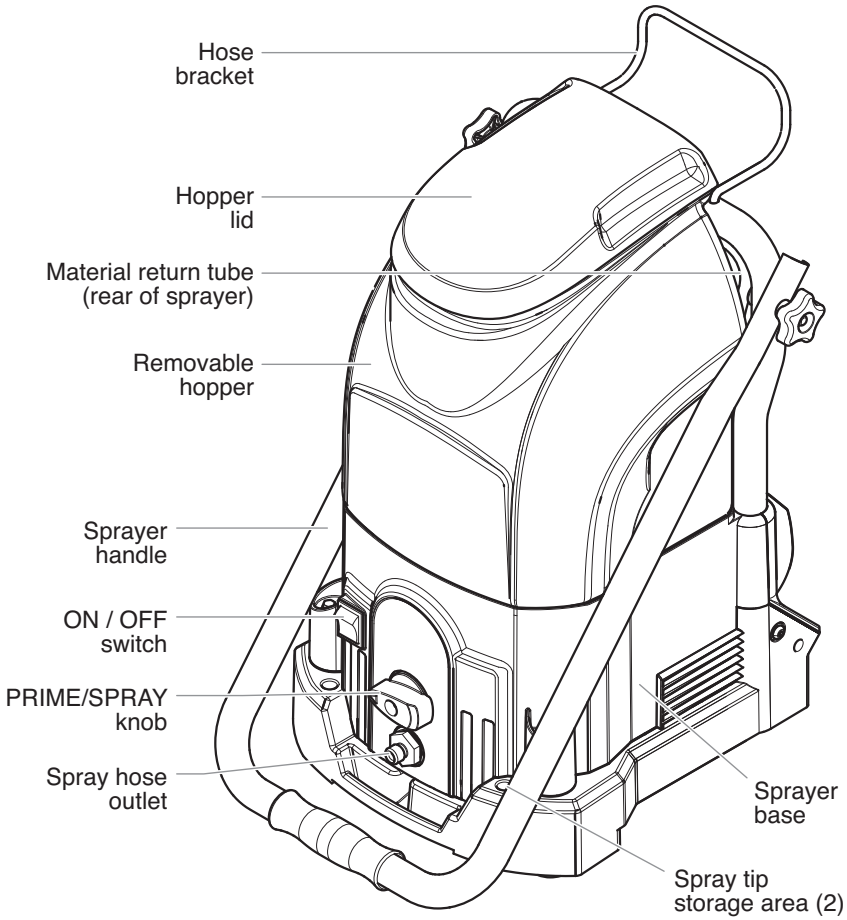
1-800-328-8251

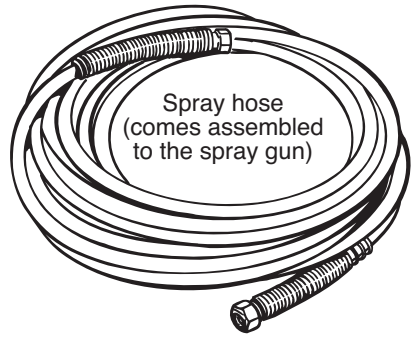
What's in the box?

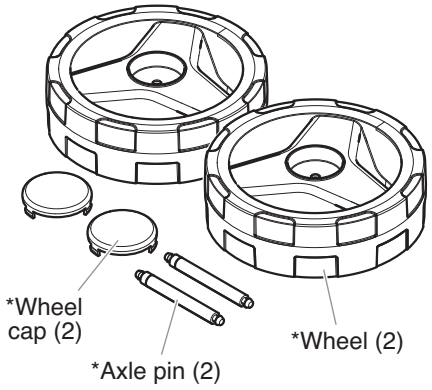
***Certain parts of the sprayer will not be assembled out of the box. Be sure to read Assembly instructions, page 6.**

Tool storage location (inside sprayer base)









* Wheel parts can be found inside the hopper.
See **Assembly** section, page 6.

Questions?

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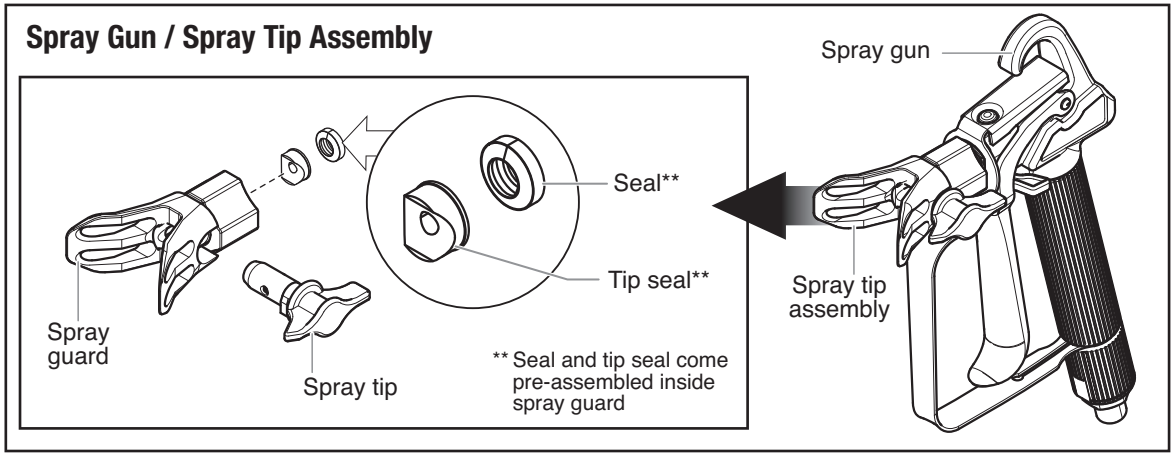
Spray Gun / Spray Tip Assembly



** Seal and tip seal come pre-assembled inside spray guard

Proper use and functions

Start Capability:

Sprays a variety of paints (oil-based and latex), primers, stains, preservatives and other nonabrasive materials. Do not use materials with flash points below 70° F (21° C)

Do not use!

This pump should not be used with textured materials, block filler, lacquers, industrial enamels, or asphalt sealer or materials containing HHC. See coating supplier if flash point is not listed on the container

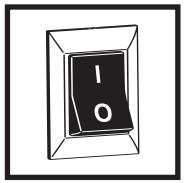
Safety features:

Spray gun trigger lock and pressure diffuser; built-in tip safety guard; PRIME/SPRAY knob for safe pressure release. Conforms to ULSTD 1450. Certified to CAN/CSAC 22.2 NO 68-92

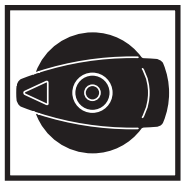
Specifications

Weight	20.5 lbs
Flow rate	0.24 gal/minute
Power source	1/2 Hp universal motor
Power requirement	15 amp minimum circuit on 120 VAC, 60 Hz current
Generator requirement	5000 Watt
Max. spraying pressure	2800 PSI

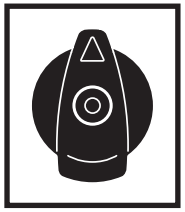
Controls and Functions



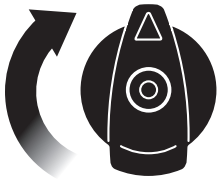
ON/OFF switch:
The ON/OFF switch turns power to sprayer on and off.
(O=OFF, I=ON)



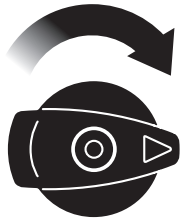
PRIME/SPRAY knob:
The PRIME/SPRAY knob directs material to the material return tube when set to PRIME or to spray hose when set to SPRAY.



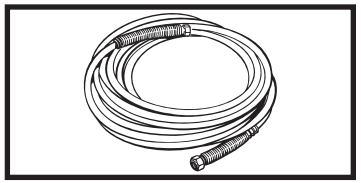
Pressure control:
The pressure control function is also controlled by the PRIME/SPRAY knob. The pressure control regulates the amount of force the pump uses to push the fluid and can be adjusted for desired spray pattern.



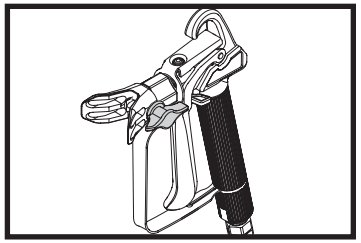
SPRAY - MINIMUM PRESSURE
Ideal for thinner spray materials.
Also to be used during cleanup, when unclogging the tip, or when using the optional roller attachment.



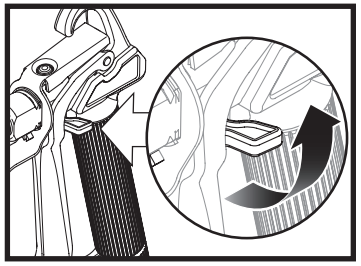
SPRAY - MAXIMUM PRESSURE
Ideal when spraying thicker materials.
To be used during spraying.



Spray hose:
The spray hose connects the spray gun to the pump.

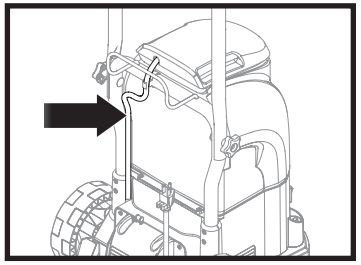


Spray gun:
The spray gun controls the delivery of the material being pumped.

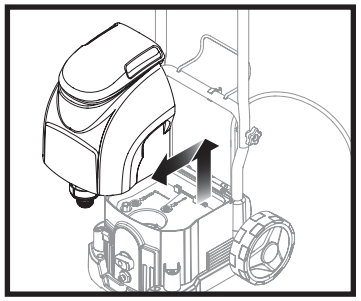


Trigger lock:
Engage the trigger lock whenever the gun is not in use.

The gun is locked when the trigger lock is at a 90º angle (perpendicular to the trigger in either direction).



Material return tube:
Fluid is sent out through the return tube and back into the hopper when the PRIME/SPRAY knob is in the PRIME position.



Removable hopper:
The hopper can be removed for easy emptying and cleaning. It can be removed when empty or when filled with material.

IMPORTANT: Do not exceed 2.5 gallons. The hopper will not stand on its own. Make sure it is empty before setting it down.

1. Assembly

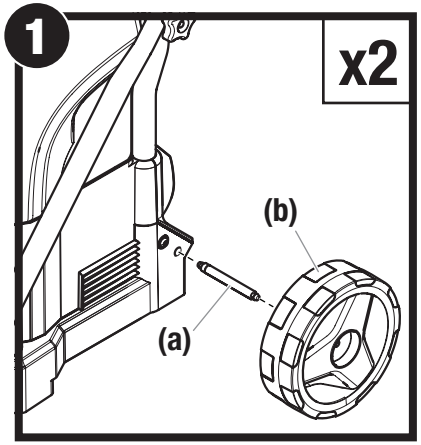
Start

You will need:

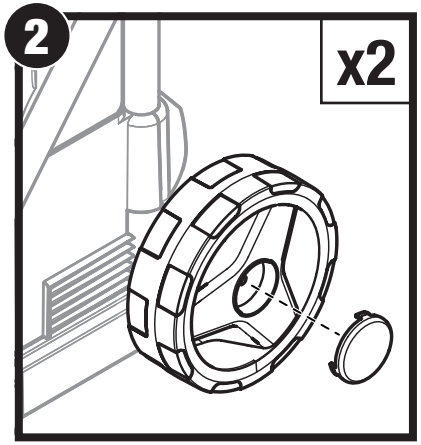
- Adjustable wrench

IMPORTANT: Do not plug in the power cord until assembly is complete.

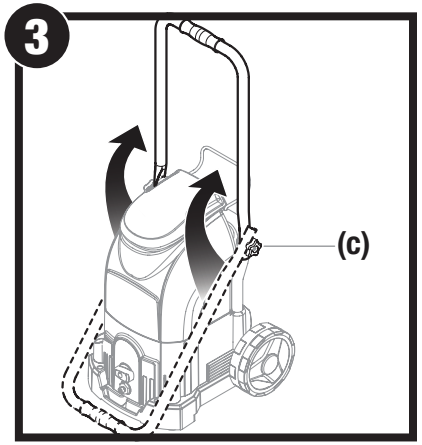
Note: It will be much easier to attach the hose to the sprayer if you uncoil it first.



1. Insert the axle pins (a) through the holes in the side of the sprayer base as shown.
   Push wheel (b) in until the axle snaps into place.

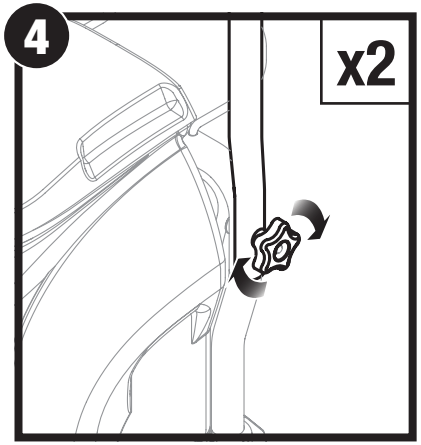


2. Snap the caps into the center of each wheel as shown.

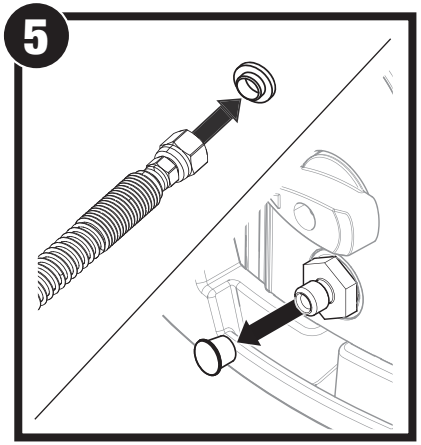


3. Lift the handle to a vertical position.

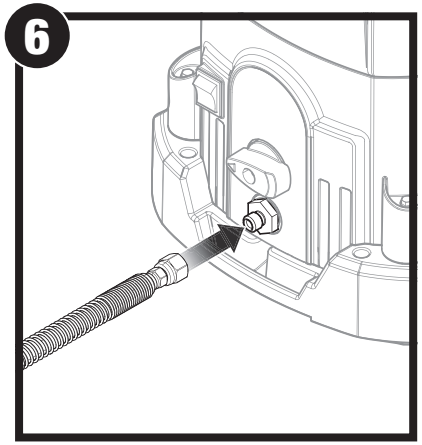
Note: You may have to loosen the the handle nuts (c) in order to move the handle.



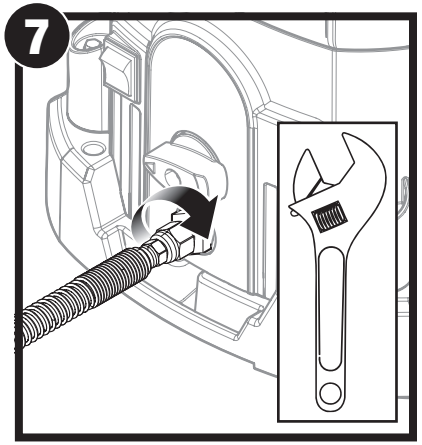
4. Tighten the handle nuts in order to secure the handle in place.



5. Remove the plug from inside the hose fitting and remove the cap on the outlet valve. Discard both.



6. Thread one end of the spray hose to the outlet valve on the sprayer.



7. Tighten the hose with an adjustable wrench.

Pressure Relief Procedure*

***Perform when instructed**

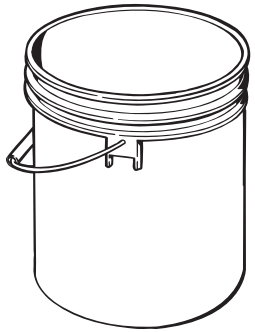
Start

Important Safety Warning

Be sure to follow the Pressure Relief Procedure when shutting the unit off for any purpose. This procedure is used to relieve pressure from the spray hose. Failure to do so could result in serious injury.

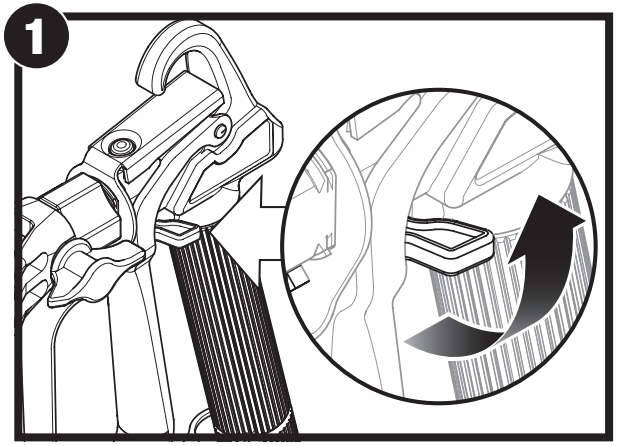
You will need:

- A waste bucket

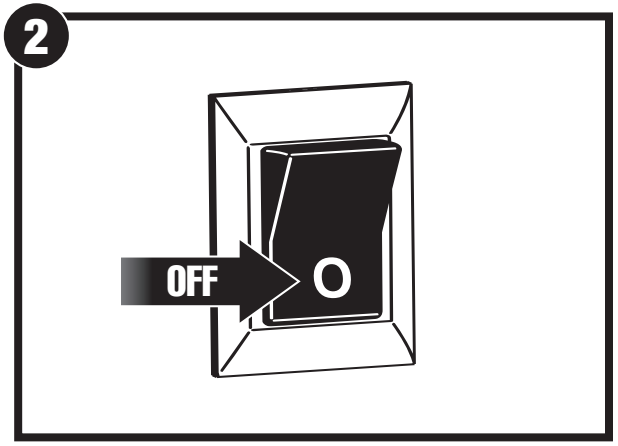


Important Safety Warning

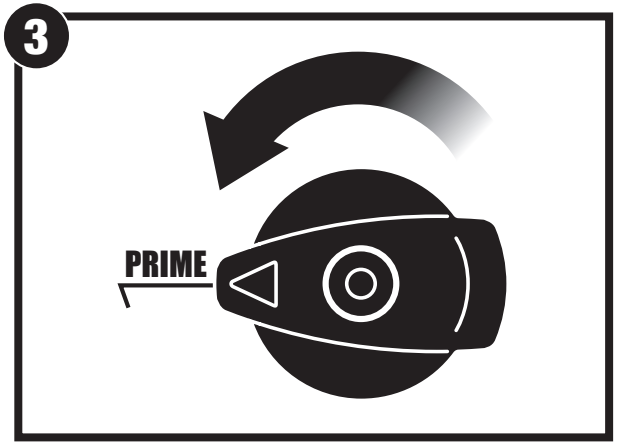
Be careful when handling the spray gun so you don't accidently spray yourself. The high pressure paint stream could pierce your skin causing serious injury. If an accident happens see detail procedures in the Safety Information section on pages 2-3. See physician immediately and bring this instruction manual.



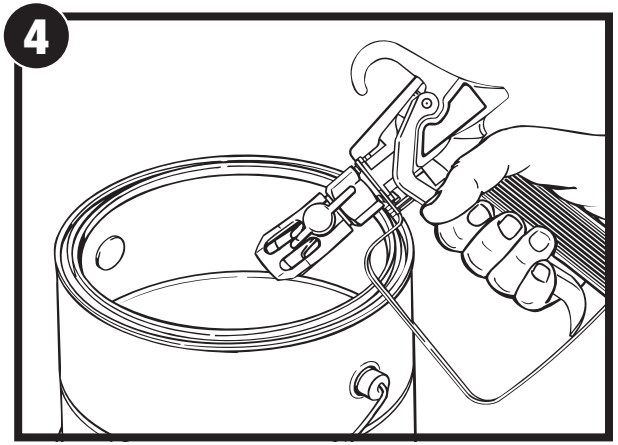
1. Lock the spray gun trigger.



2. Turn the power OFF.



3. Turn the PRIME/SPRAY knob to PRIME.

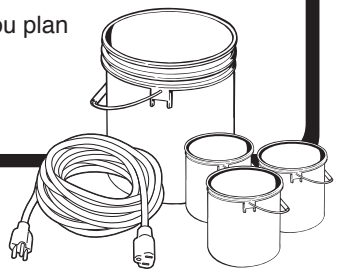


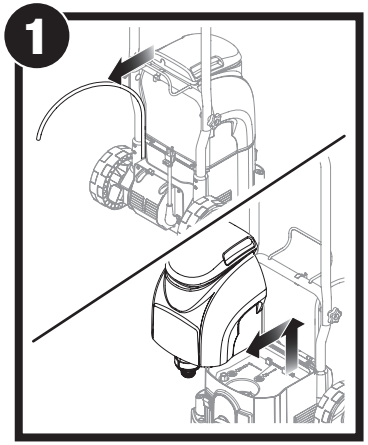
4. Unlock the spray gun. Briefly pull the trigger to fully relieve pressure from the system. Lock the spray gun.

2. Load Material

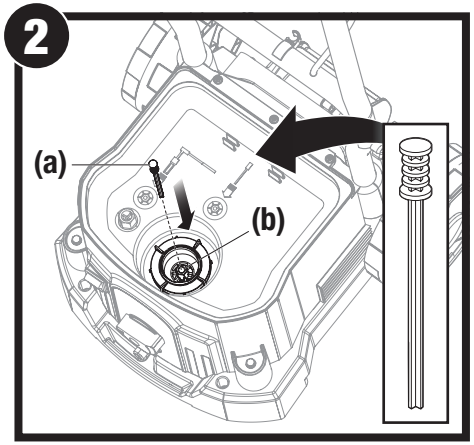
Start **You will need:**

- The material you plan to spray
- Extension cord
- Waste bucket

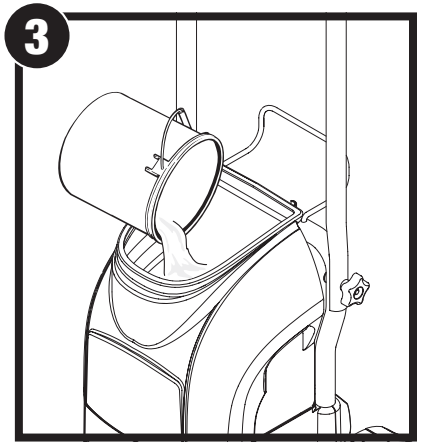




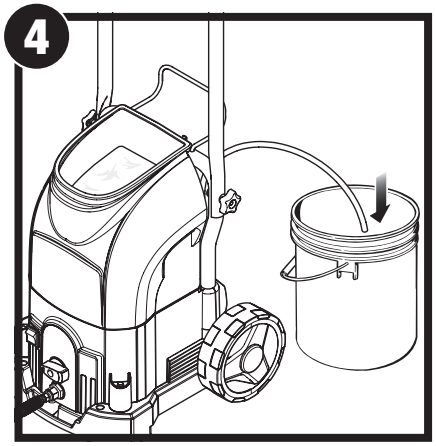
1. Pull the return tube from the rear of the hopper lid.
   Remove the hopper.



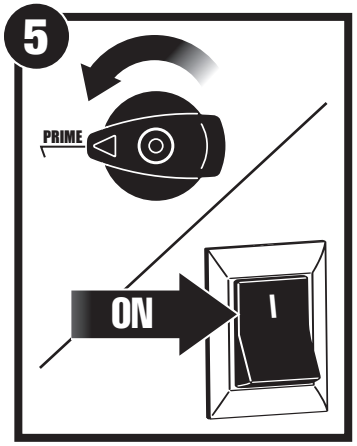
2. Insert the inlet pusher tool (a) into the center of the inlet valve area (b).
   Push pusher tool down to ensure proper operation of the inlet valve.



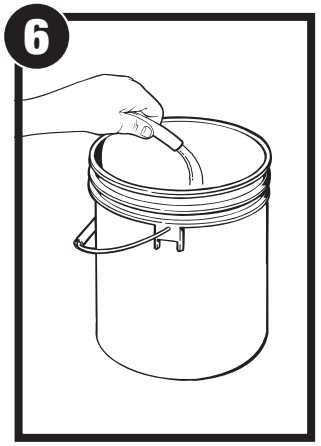
3. Replace the hopper. Remove the hopper lid.
   Fill the hopper with the material you plan to spray. **Do not exceed 2 1/2 gallons.**



4. Pull the return tube from the hopper and hold it over a waste container.

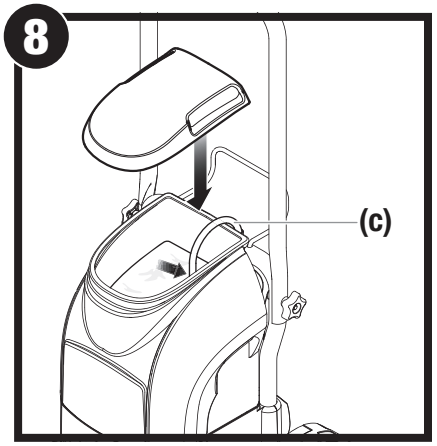


5. Plug in the sprayer.
   Turn the PRIME/SPRAY knob to PRIME.
   Turn the power ON.



6. Hold return tube over waste bucket until material is flowing (approximately five seconds).

7. Turn power OFF.



8. Place return tube (c) back into position over the hopper.
   Replace the hopper lid.

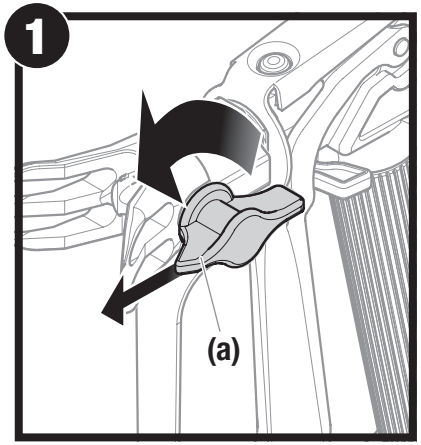
3. Getting Material to Flow

Start

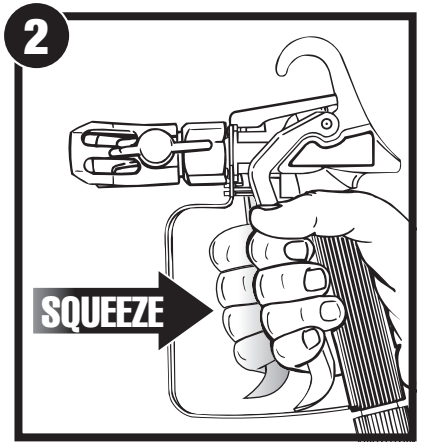
You will need:

- Scrap material / cardboard
- Drop cloths to protect floors and furnishings from overspray

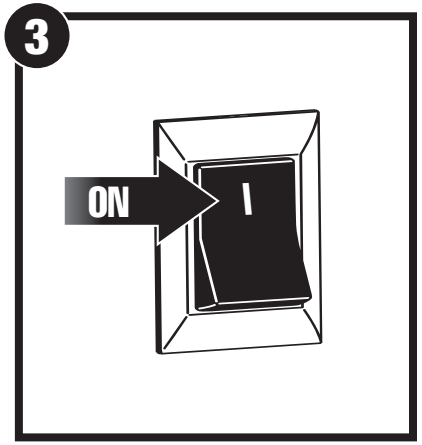
Note: Motor will cycle ON and OFF while spraying to regulate pressure. This is normal.



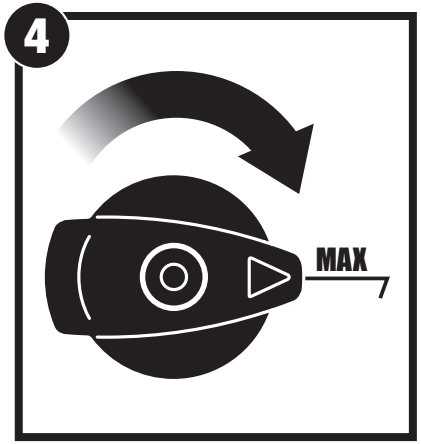
1. Rotate spray tip forward to SPRAY position (a).
   Unlock the spray gun trigger.



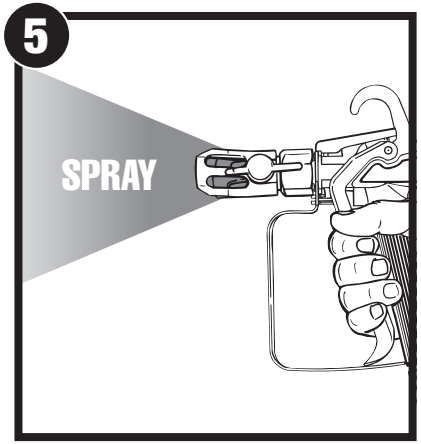
2. Point the spray gun at a piece of scrap material/cardboard.
   Squeeze and hold trigger for steps 3-5.



3. Turn the power ON.

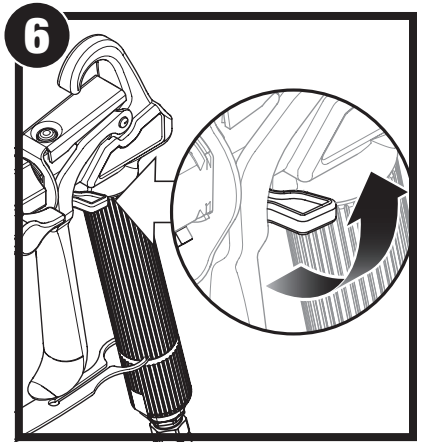


4. Turn the PRIME/SPRAY knob to SPRAY - MAXIMUM PRESSURE.



5. Continue to squeeze trigger until the material is flowing freely through the spray gun.

Note: Motor will cycle ON and OFF while spraying to regulate pressure. This is normal.



6. Release the trigger and lock the spray gun.

4. Practice Spraying

Start

You will need:

- Scrap material / cardboard

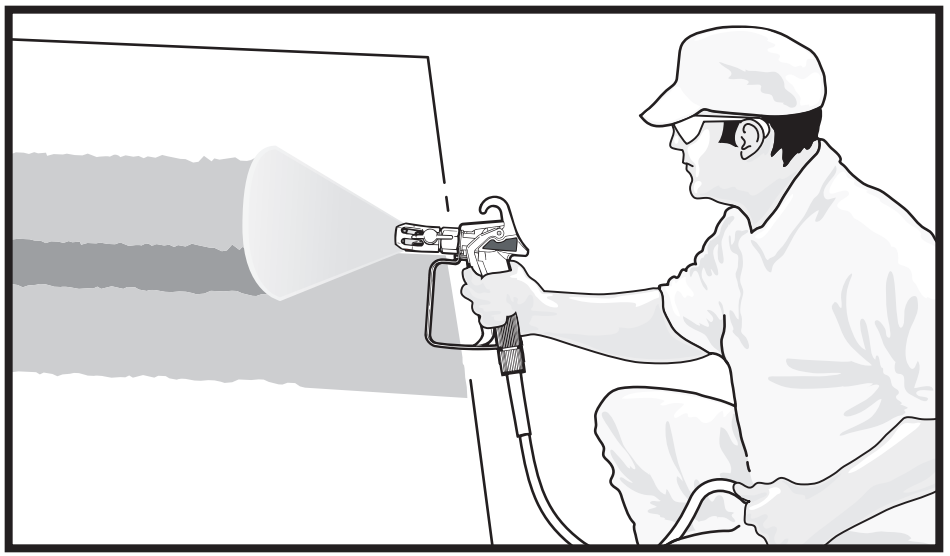
Notes:

If the spray pattern becomes distorted or stops completely while the gun is triggered, follow any or all the procedures listed on pages 12-14.

If you plan to be away from your spray project for more than one hour, follow the Short Term Storage instructions on page 15.

If you have difficulty achieving a good spray pattern, your spray tip and gun filter may not be ideal for the type of material you are spraying. Refer to the chart below and on page 75.

Spray Tip Size	Filter Color	Spray Material	Initial Pressure Setting
411	Red	Thin stains, sealers	Minimum
511			
413	Yellow	Thick latex paints, stains	Maximum
513			
415			
515			

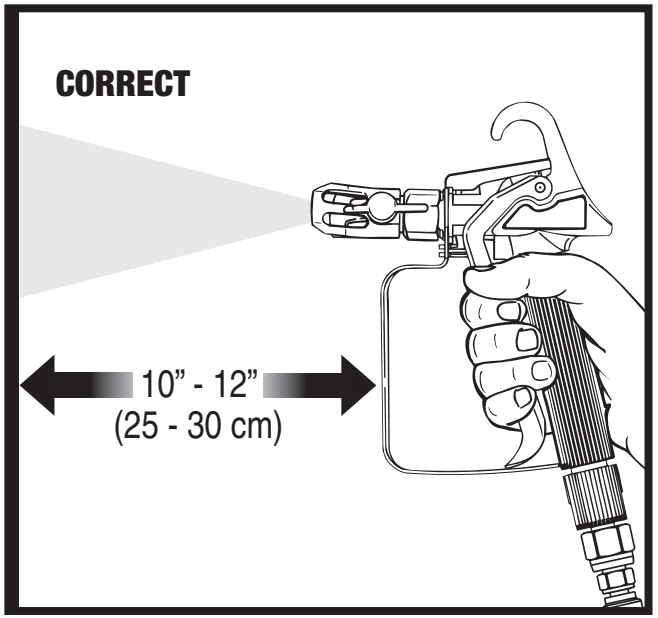


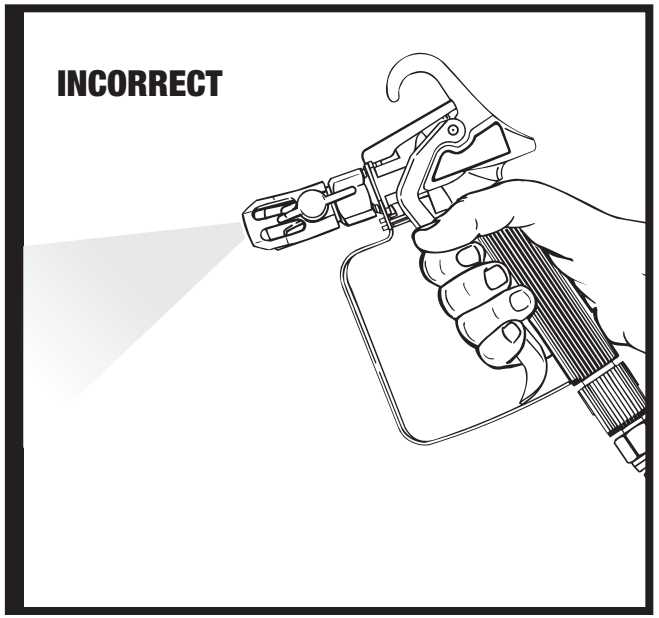
Practice on a piece of scrap material/cardboard

Tip:

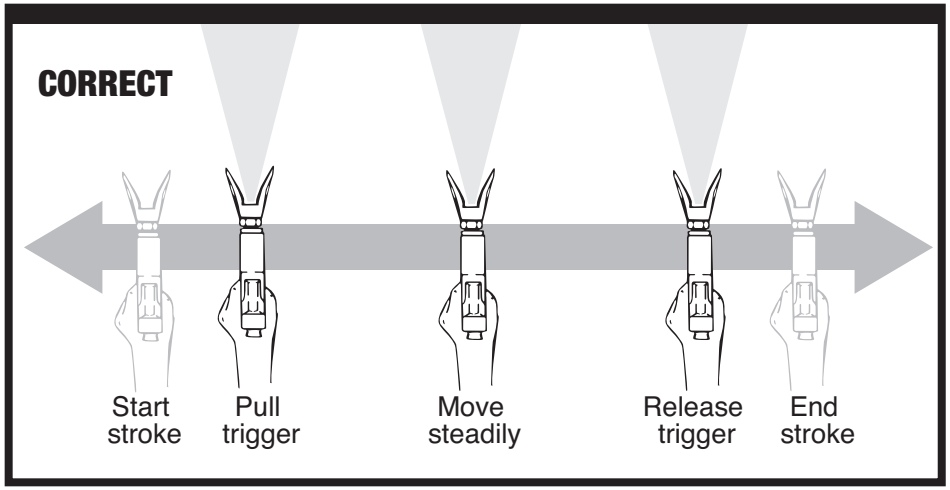
Trigger gun after starting the stroke. Release the trigger before ending the stroke. The spray gun should be moving when the trigger is pulled and released. Overlap each stroke by about 30%. This will ensure an even coating.

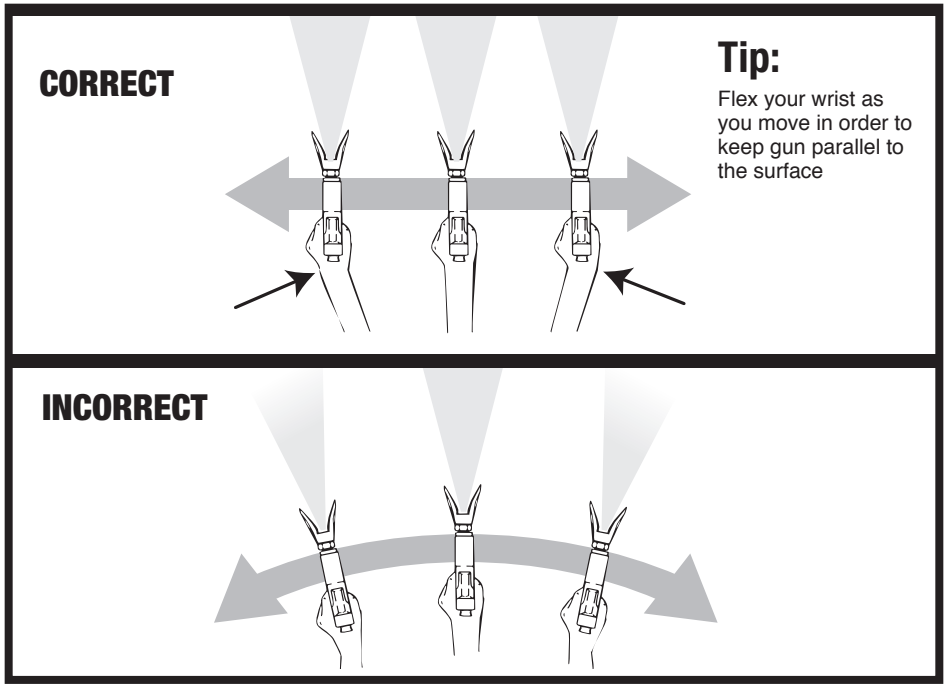
Hold the Spray Gun Level



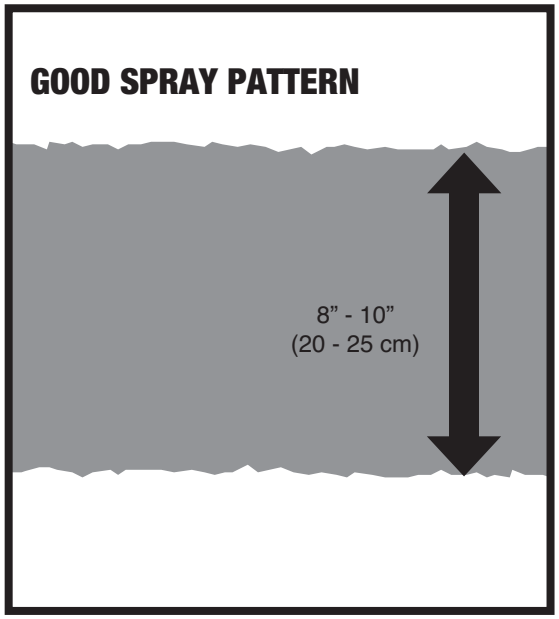


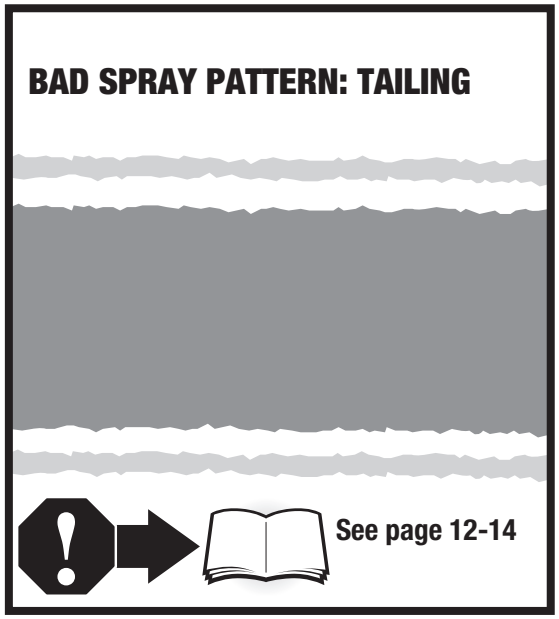
Spray Technique



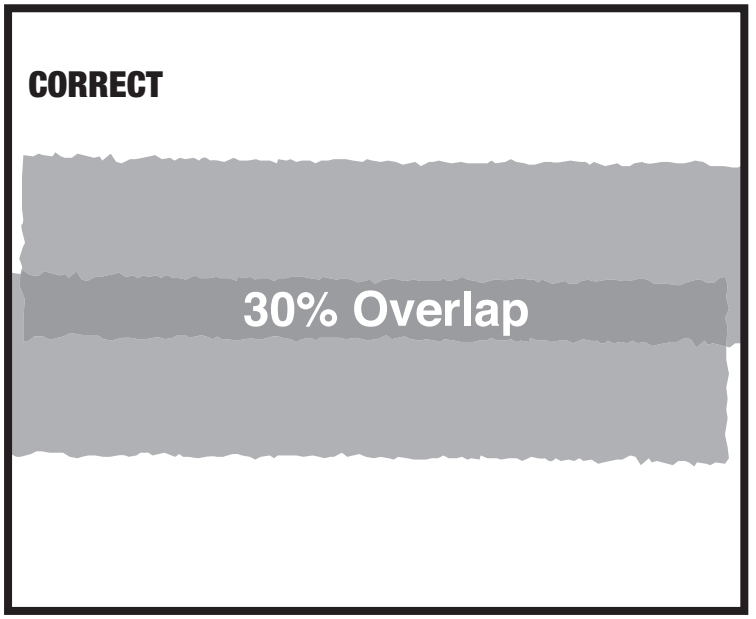


Spray Pattern





Overlap Your Strokes



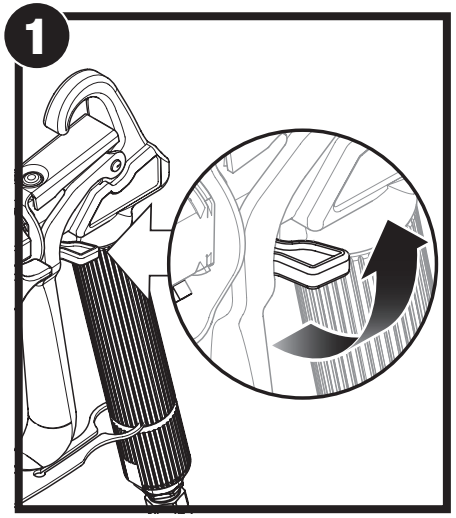
Spraying Troubleshooting -

Clear the Spray Tip

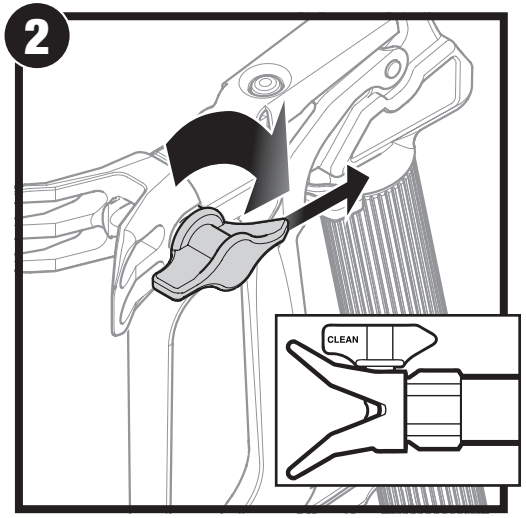
Start **You will need:**

- Scrap material / cardboard

Do not attempt to unclog or clean the tip with your finger. High pressure fluid can cause injection injury.

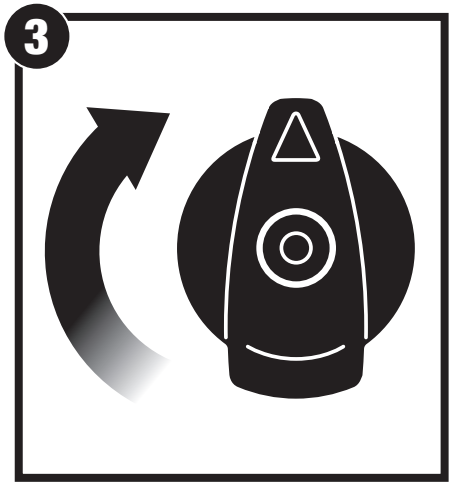


1. Lock the spray gun.

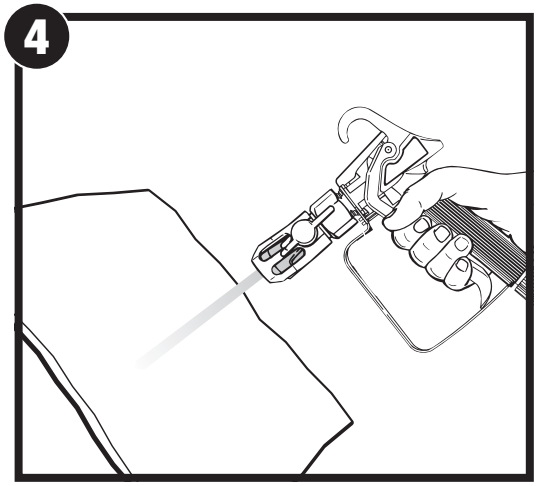


2. Rotate reversible spray tip 180 degrees to **CLEAN** position (arrow pointing toward the rear of the spray gun).

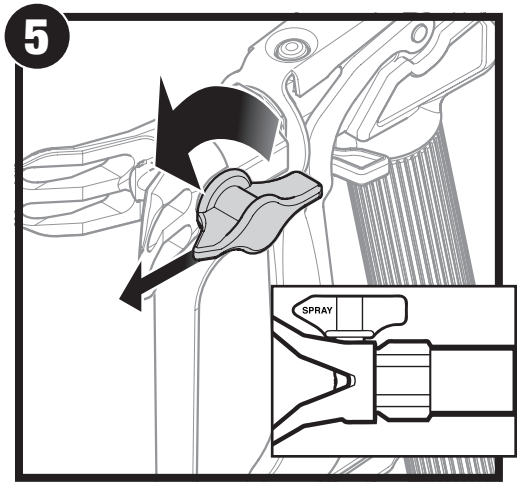
Note: If spray tip is difficult to rotate, relieve pressure by **1)** slowly turn PRIME/SPRAY knob to PRIME, **2)** unlock the spray gun and **3)** squeeze trigger while pointing at scrap material/ cardboard. Release trigger, lock the spray gun, and try rotating spray tip again.



3. Make sure the PRIME/SPRAY knob is turned to SPRAY - MINIMUM PRESSURE.
   Unlock the spray gun.



4. Point at a piece of scrap material / cardboard and squeeze trigger until material comes out in a high pressure stream.
   Release the trigger and lock the spray gun.



5. Reverse the spray tip so the arrow points forward.
   Unlock the spray gun and resume spraying.

Spraying Troubleshooting -

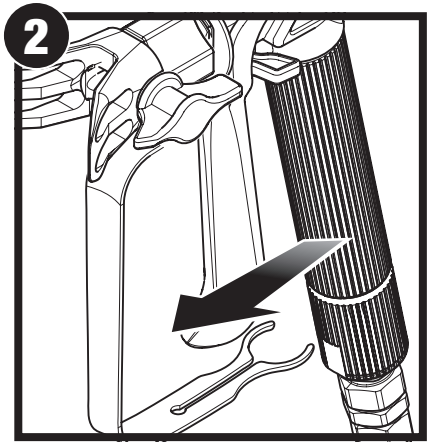
Clean the Spray Gun Filter

Start **You will need:**

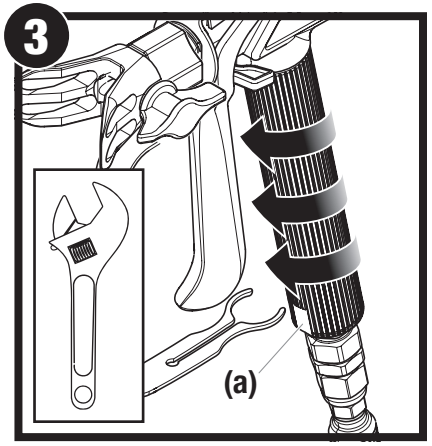
- Wrench
- Warm, soapy water for latex material
- Mineral spirits for oil based materials
- Replacement spray gun filter (if necessary)

IMPORTANT: Never clean the filter by poking it with a sharp object.

1. Peform the **Pressure Relief Procedure**, page 7.

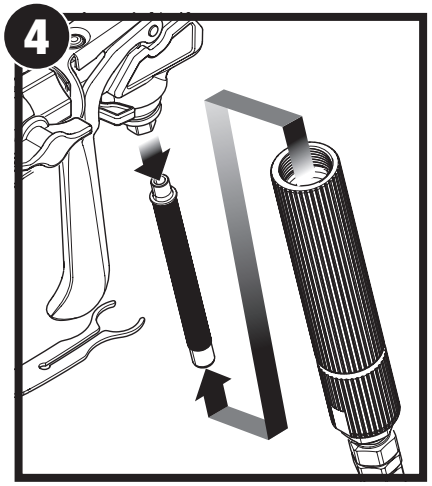


2. Pull trigger guard from filter housing.

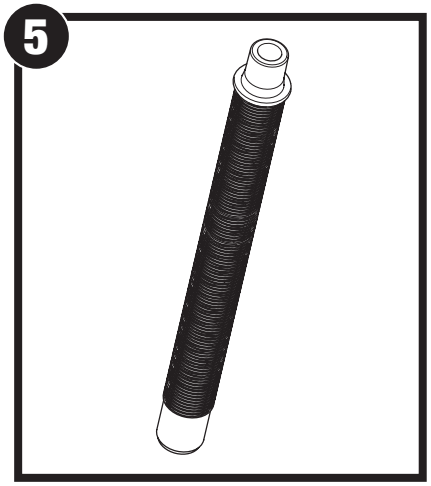


3. Tighten the wrench over the wrench flats (a). Unscrew the filter housing using a wrench.

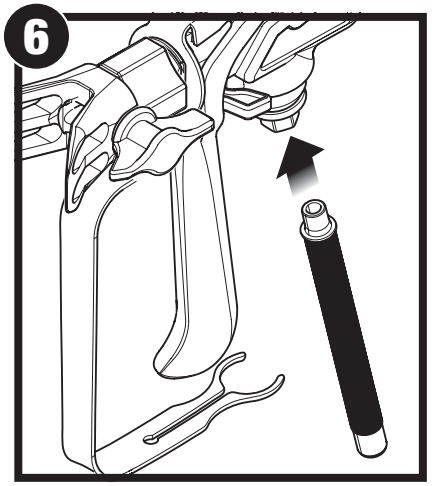
Note: You DO NOT need to remove the spray hose from the gun to clean the filter.



4. Remove the filter from the housing. Clean with appropriate cleaning solution (warm, soapy water for latex materials; mineral spirits for oil-based materials).

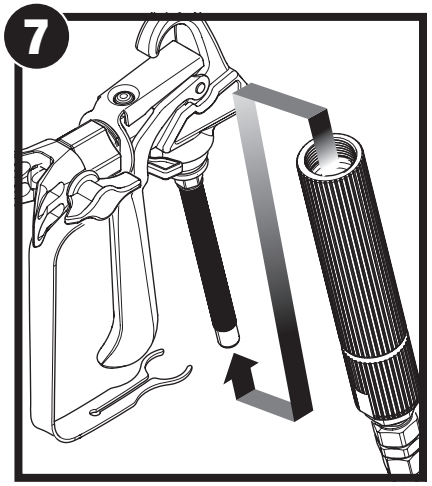


5. Inspect the filter for damage. Replace if any holes or tears are found.



6. Replace cleaned filter, tapered end first, into the gun housing.

Note: It is important to place tapered end first to ensure proper sprayer operation.



7. Reassemble the spray gun.

Spraying Troubleshooting -

Clean the Inlet Filter

Start **Emptying the hopper:**

IMPORTANT: You will need to remove the hopper to complete the steps on this page. The hopper will not stand on its own when removed. Make sure it is empty of all liquids before setting it down.

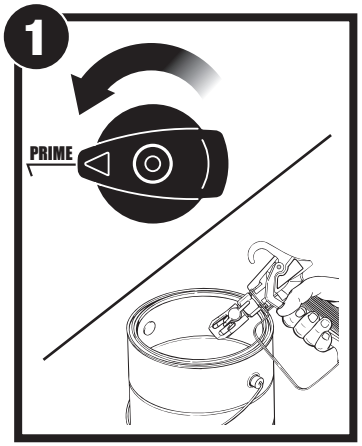
The hopper can be heavy when filled with spraying material. Make sure to lift with your legs and not your back in order to reduce the risk of injury.

IMPORTANT: Make sure your floors and furnishings are covered with drop cloths to prevent accidental drips.

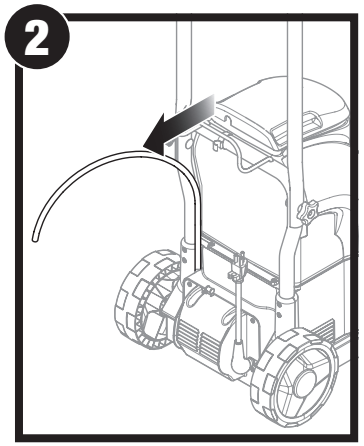
You will need:

- Warm, soapy water for latex material
- Mineral spirits for oil based materials

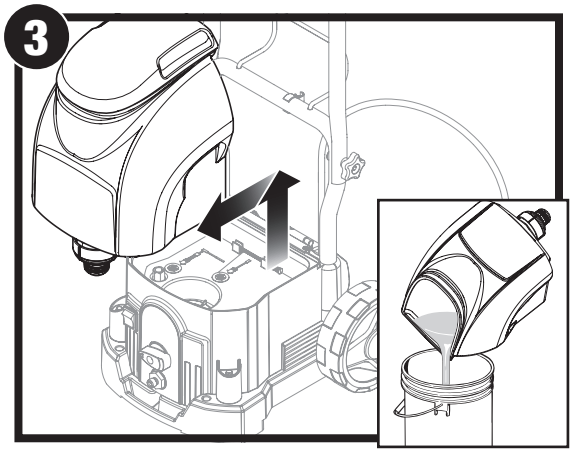
Note: If after having completed all of the steps on this page you are still experiencing problems spraying, refer to the **Troubleshooting** page (page 22).



1. Peform the **Pressure Relief Procedure**, page 7.

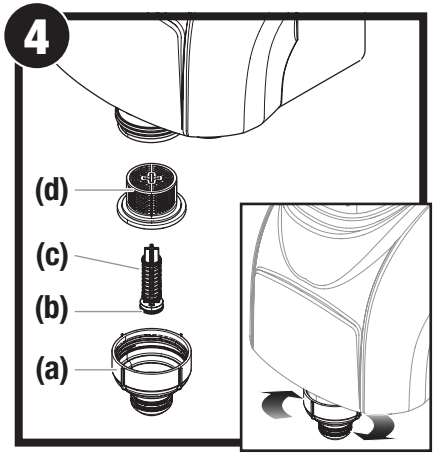


2. Pull the return tube from the rear of the hopper lid.



3. Grab hopper by the side handles and gently pull it out (see the “Start” comments on the left side of this page). Empty the hopper of all spraying material.

   Clean any remaining material residue inside the hopper with the appropriate cleaning solution. The hopper must be completely dry.

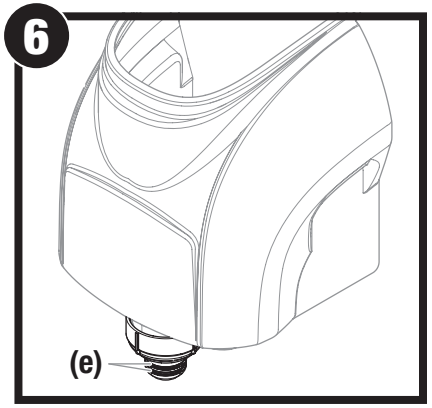


4. Unscrew the hopper outlet (a).

   The valve stem (b), spring (c) and inlet filter (d) will come out with the hopper outlet.

   Remove the inlet filter from the hopper outlet, being careful not to lose the spring or stem.

5. Clean the inlet filter using the appropriate cleaning solution (warm, soapy water with latex paints, mineral spirits with oil-based paints or stains).



6. Place the inlet filter back over the valve stem/spring and into the hopper outlet. Thread the hopper outlet back into the bottom of the hopper.

   Lubricate the hopper outlet O-rings (e) with petroleum jelly.

   Resume spraying (follow steps on pages 8-9)

Short Term Storage

Start

You will need:

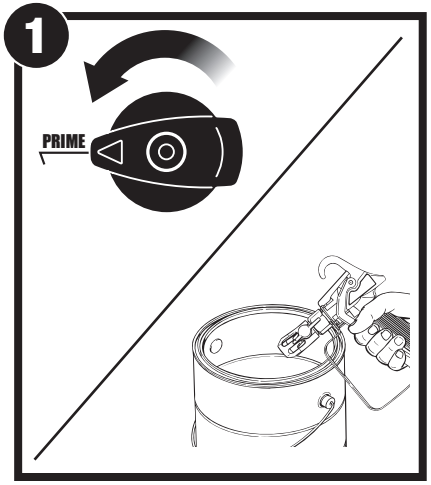
- Water
- Plastic bag or bucket
- Rags
- Stir stick

This procedure should be used when taking a short term break or when ending your project for the day. If your break is longer than 16 hours follow Cleanup instructions, page 16.

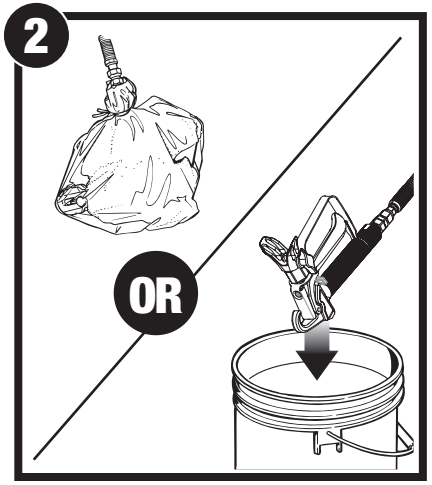
Instructions are for latex materials only

Note: If using oil based material follow instructions for **Cleanup** on page 16.

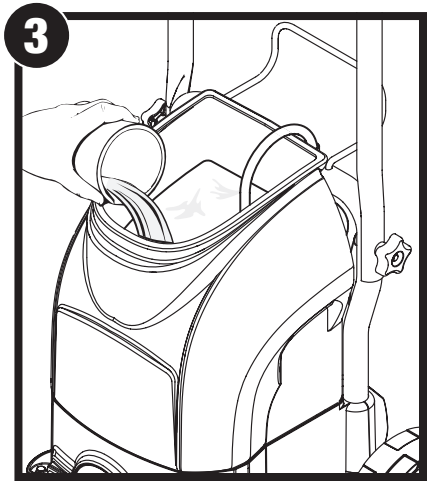
Shutdown



1. Peform the **Pressure Relief Procedure**, page 7.



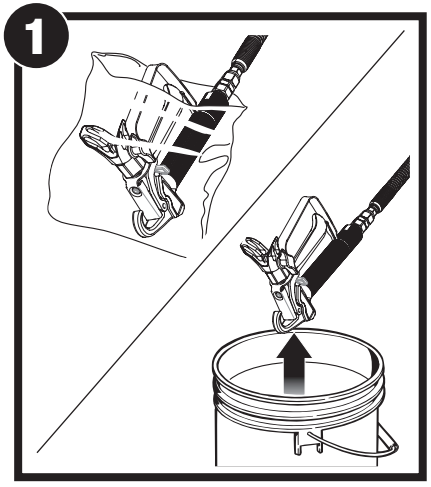
2. Place spray gun in plastic bag or immerse into bucket of water.



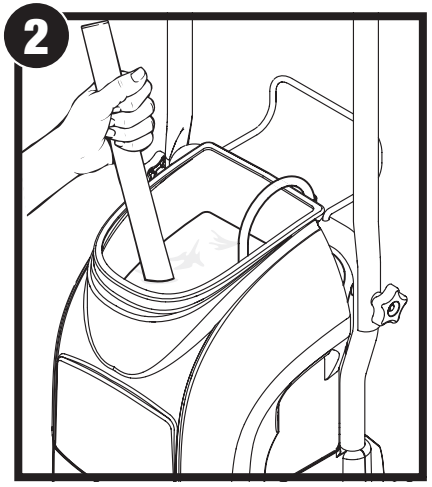
3. Pour 1/2 cup water slowly on the top of the paint to prevent the paint from drying. Replace hopper lid.

   Place the entire spraying system out of the sun.

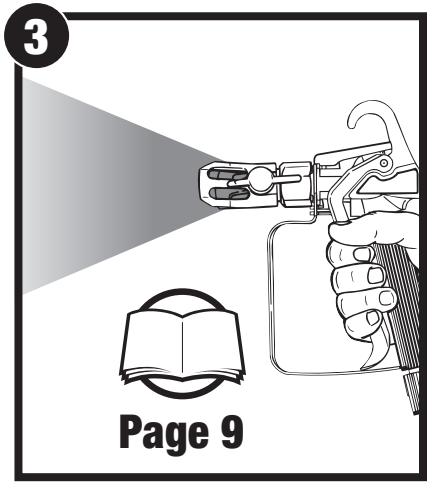
Startup



1. Remove the spray gun from the plastic bag or the water.



2. If water was added during shut down, stir water into material with the stir stick.



3. Follow **Getting Material to Flow** instructions, page 9.

Cleanup

Start

Cleaning notes - read before cleaning

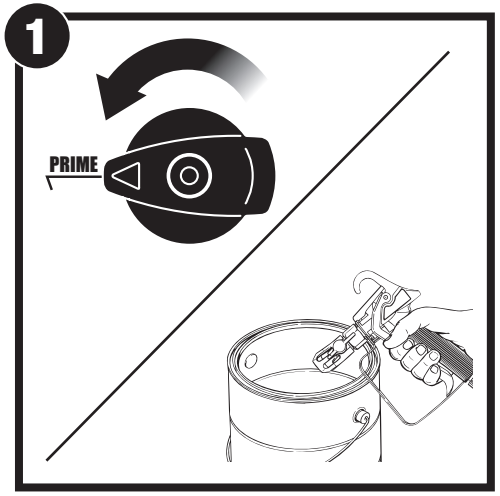
- When using latex material, clean sprayer and components with warm, soapy water. For oil based material use mineral spirits. Never use mineral spirits with latex materials
- NEVER use gasoline to clean sprayer
- Dispose of used cleaning solution properly
- Thorough cleaning and lubrication of sprayer is important to ensure proper operation after storage
- If you flush your sprayer with mineral spirits, repeat **Cleanup** instructions using warm, soapy water.

Follow these steps whenever cleaning with mineral spirits:

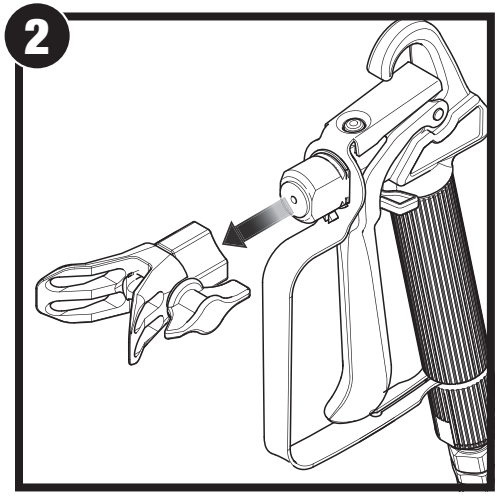
- If spraying or cleaning with oil-based materials, the spray gun must be grounded while preparing the spray hose or cleaning.
- Ground the gun by holding it against the edge of a metal container while purging. Failure to do so may lead to a static electric discharge which may cause a fire.
- Always flush spray gun at least one hose length from spray pump.
- If collecting flushed solvent in one gallon metal container, place it into an empty five gallon container, then flush.
- Area must be free from vapors.
- Follow all cleanup instructions.

You will need:

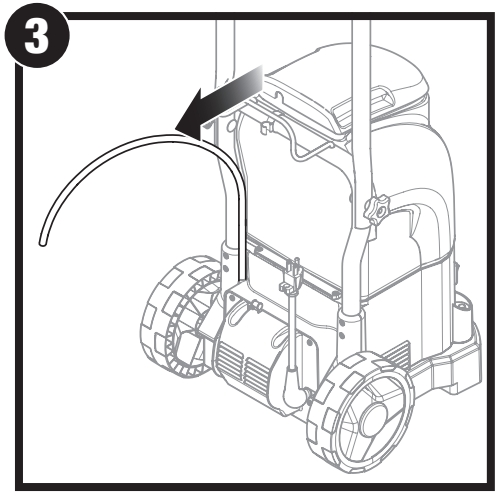
- Warm, soapy water for latex material
- Mineral spirits if using oil-based material
- Empty waste container



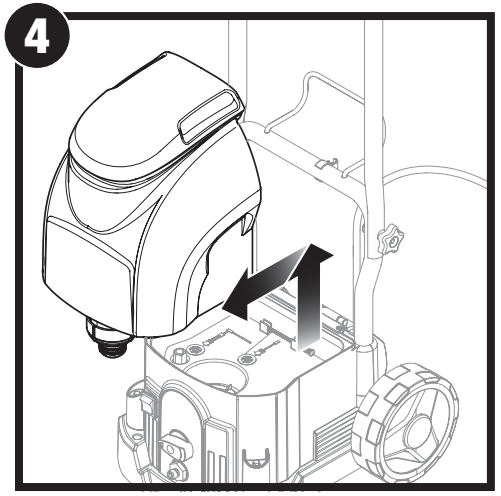
1. Perform **Pressure Relief Procedure** (page 7).



2. Remove the spray tip and place into an empty waste container.



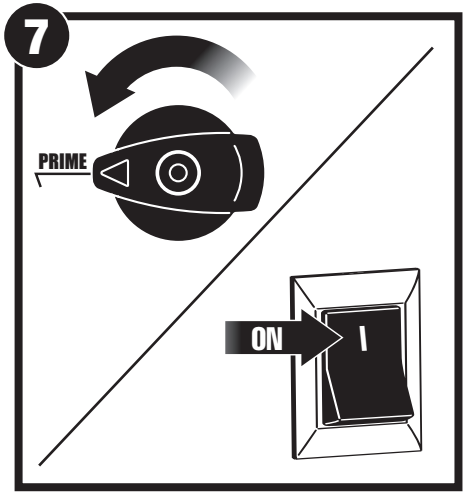
3. Pull the return tube from the rear of the hopper lid.



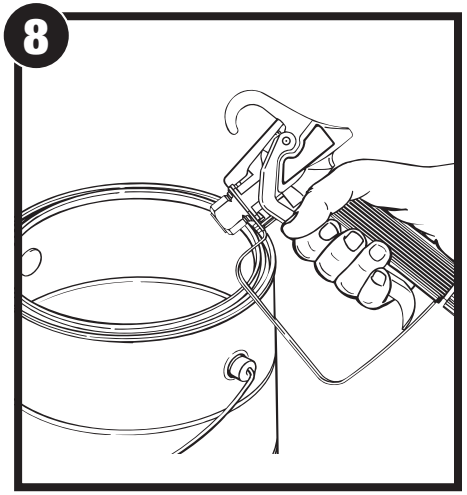
4. Remove the hopper (see “Emptying the Hopper”, page 14).

5. Empty the hopper of spraying material.
   While removed, rinse the hopper with the appropriate cleaning solution until clean.

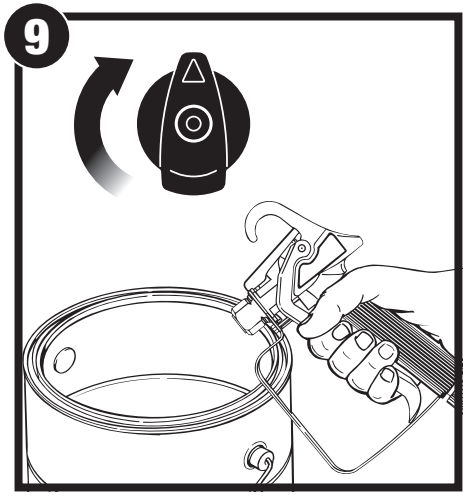
6. Replace the hopper and return tube (a).
   Fill the hopper with appropriate cleaning solution.



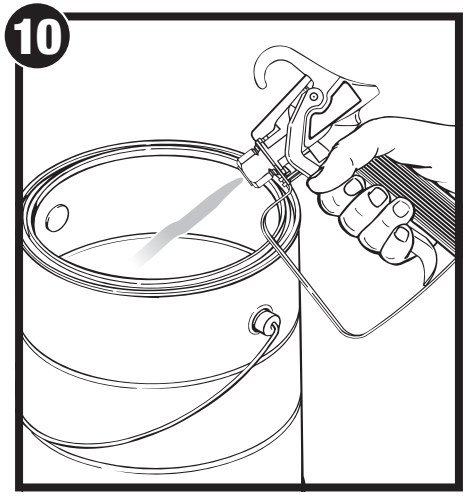
7. Turn the PRIME/SPRAY knob to PRIME.
   Turn the pump ON.
   Let the pump run for a few minutes, and leave pump running for next steps.



8. Point the spray gun at the side of a waste container.



9. While squeezing the trigger, turn the PRIME/SPRAY knob to SPRAY - MINIMUM PRESSURE.



10. Continue squeezing the trigger until fluid is coming out clear.

11. Perform **Pressure Relief Procedure**, page 7.

Note: If you flushed the sprayer with mineral spirits repeat the steps on this page using warm, soapy water.

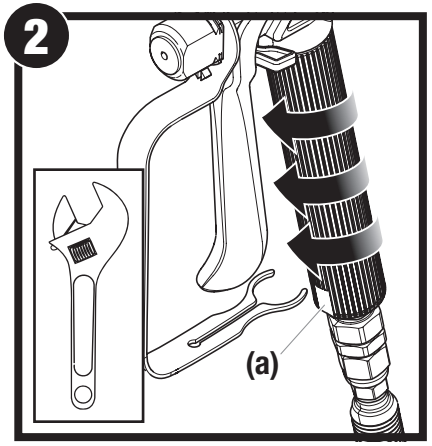
Move on to **Cleaning the Gun Components,** page 18.

Cleaning the Spray Gun Components

Start **You will need:**

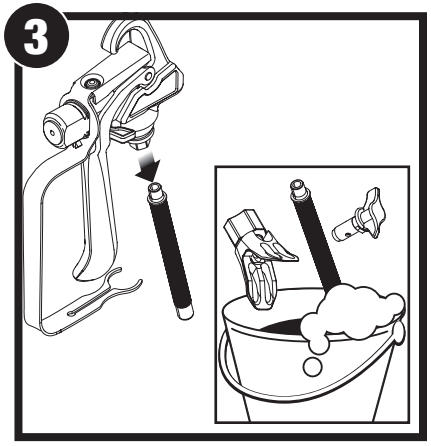
- Soft bristled brush
- Multi-purpose oil
- Warm, soapy water if using latex material
- Mineral spirits for oil based material
- Wrench

1. Peform the **Pressure Relief Procedure**, page 7.

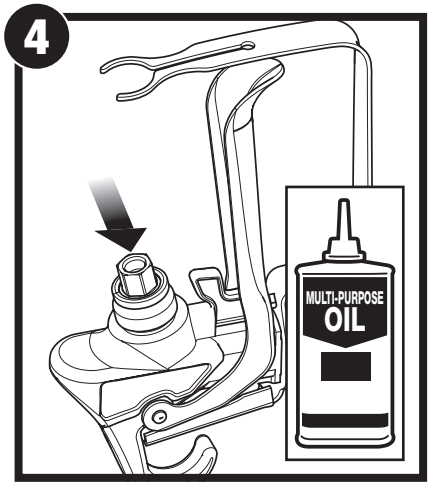


2. Pull trigger guard to separate from filter housing and unscrew housing using a wrench.

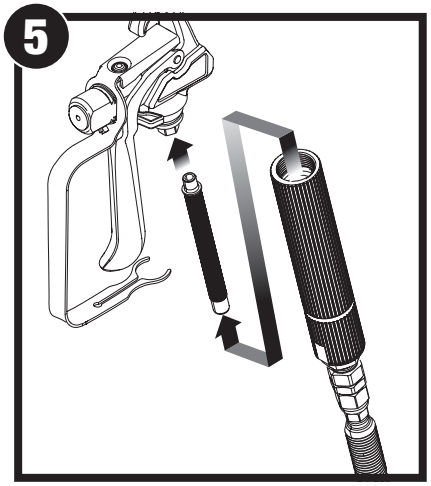
Note: Tighten the wrench over the wrench flats (a).



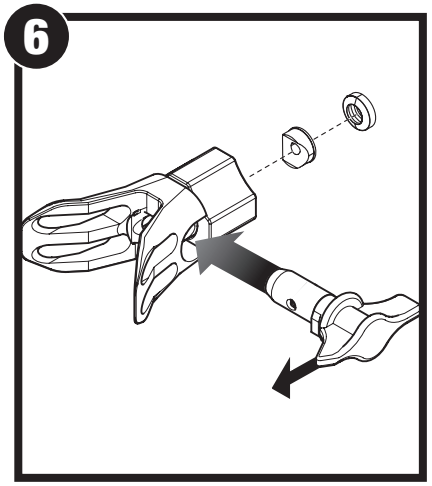
3. Remove filter from spray gun.
   Clean spray tip and filter with soft bristled brush and appropriate cleaning solution.



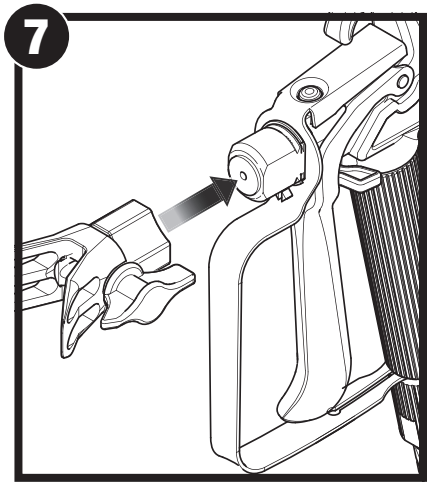
4. Pour a few drops of multi-purpose oil inside gun housing.



5. Install gun filter tapered-end first. Reassemble spray gun.



6. Install spray tip with arrow pointing towards front of spray guard tip.



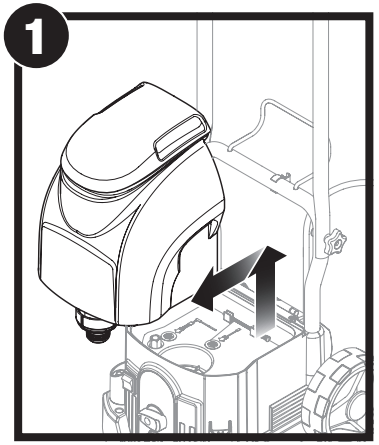
7. Install spray tip and guard assembly.
   Move on to **Long Term Storage,** page 20**.**

Long Term Storage

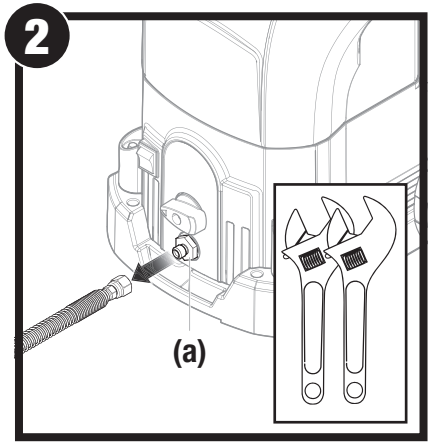
Start **You will need:**

- Multi-purpose oil
- Rags
- Adjustable wrench (2)

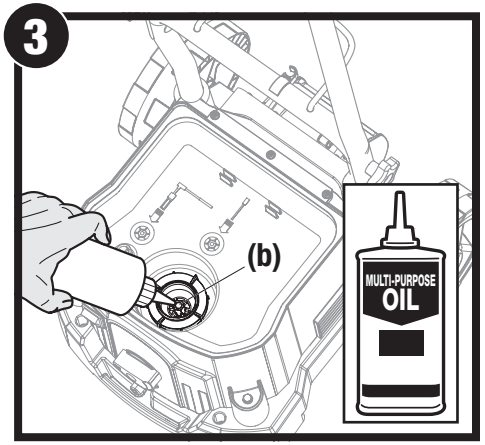
IMPORTANT: Store the unit indoors with the power cord safe from damage.



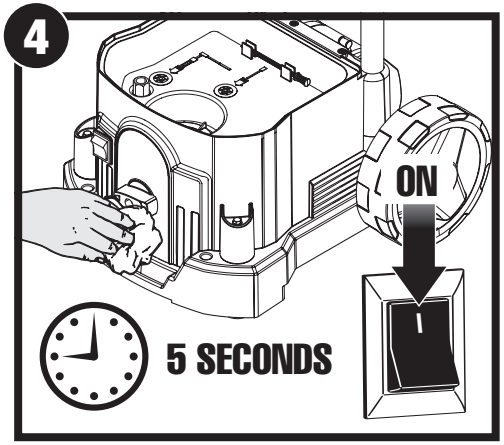
1. Remove the hopper.



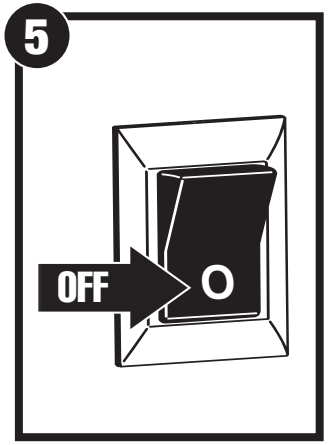
2. Remove the hose from the spray hose port.
   Hold the outlet valve (a) with an adjustable wrench and remove the hose with the other.



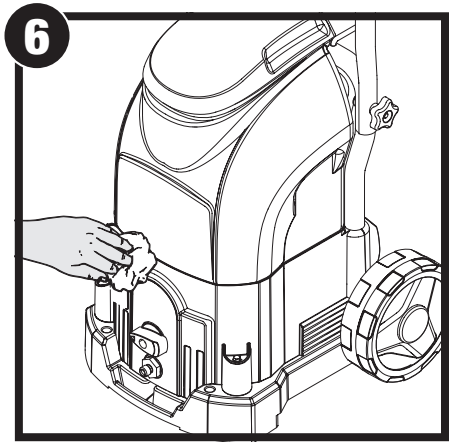
3. Pour approximately 2 ounces of multi-purpose oil into the inlet valve (b).



4. Cover the outlet valve with a rag.
   Turn power ON and let the pump run for five seconds.



5. Turn power OFF.



6. Replace the hopper.
   Wipe entire unit, hose, and spray gun to remove accumulated spray material.

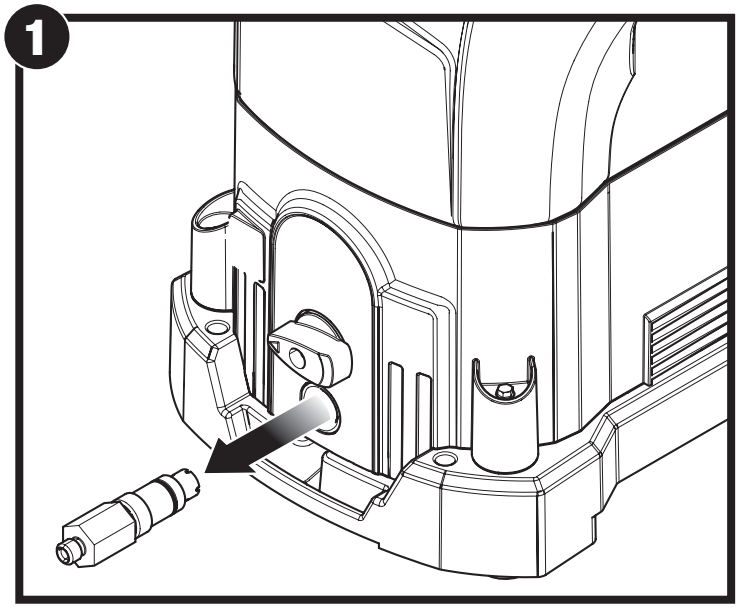
Cleaning or Replacing Outlet Valve

Start

You will need:

- Wrench
- Rag
- Warm, soapy water if using latex material
- Mineral spirits for oil based material

Replacement of the outlet valve may be necessary if spray performance remains poor after following steps in the Troubleshooting section. Replacement valves can be ordered by calling the customer service number found on page 4



1. Unscrew outlet valve from outlet valve housing using a wrench.
2. Remove any accumulated material inside outlet valve housing using appropriate solution for material being used.
3. Replace with new outlet valve and tighten with wrench.

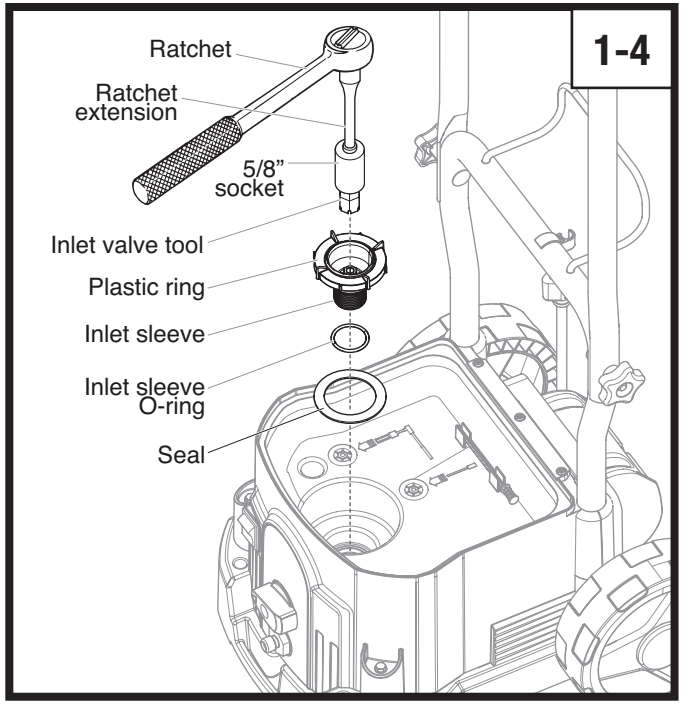
Cleaning or Replacing Inlet Valve

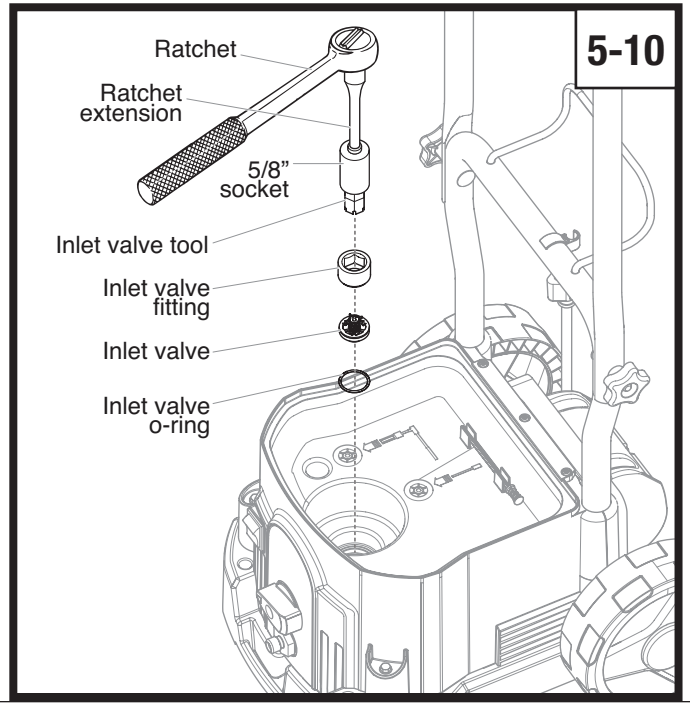
Start **You will need:**

- Ratchet, ratchet extension, 5/8” socket
- Multi-Purpose Oil
- Warm, soapy water if using latex material
- Mineral spirits for oil-based materials

Note: You will need to attach the inlet valve tool to a ratchet extension with a 5/8” socket in order to remove the inlet valve.

Cleaning or replacing the inlet valve may be necessary if spray performance remains poor after following steps in the Troubleshooting section. Problems with the inlet valve are usually caused by improper cleaning or storage. Replacement kits may be ordered by calling the customer service number found on page 4





1. Remove the hopper.
2. Insert the inlet valve tool (attached to 5/8” socket, ratchet extension and ratchet) into the inlet valve area.
3. Twist counter-clockwise and remove the inlet sleeve and plastic ring from its housing.
4. Inspect the threads on the inlet sleeve and the inlet sleeve O-ring. Remove any accumulated paint.
5. Insert the inlet valve tool (attached to 5/8” socket, ratchet extension and ratchet) into the inlet valve fitting. Using the ratchet and socket, twist counter-clockwise and remove from its housing.
6. Retrieve the inlet valve and the inlet valve O-ring from the inlet valve housing. Clean or replace and lubricate the O-ring with a Multi-Purpose oil.
7. Set the inlet valve O-ring back into the housing and set the inlet valve on top of it.
8. Replace the inlet fitting into the housing. Tighten with the inlet valve tool and ratchet.
9. Replace the seal. Place the inlet sleeve O-ring onto the inlet valve fitting and replace the inlet sleeve by twisting it clockwise.
10. Replace the hopper.

Troubleshooting

Before servicing, always release system pressure by following Pressure Relief Procedure (page 7).

Problem A: The sprayer does not start

	Cause	Solution
1.	Sprayer is not plugged in	Plug sprayer in
2.	ON/OFF switch is set to OFF	Turn ON/OFF switch to ON
3.	The sprayer shuts off while under pressure	Motor will cycle ON and OFF while spraying to regulate pressure. This is normal.
4.	No voltage is coming from wall plug	Test the power supply voltage
5.	The extension cord is damaged or has too low a capacity	Replace extension cord
6.	There is a problem with sprayer motor	Take sprayer to Wagner Authorized Service Center

Problem B: The sprayer starts but does not draw material when the PRIME/SPRAY knob is set to PRIME

	Cause	Solution
1.	The sprayer will not prime properly or has lost prime	Refer to Getting Material to Flow section **see page 9**
2.	The hopper is empty	Refer to Load Material and Getting Material to Flow sections **see pages 8-9**
3.	The inlet filter is clogged	Refer to Clean the Inlet Filter **see page 14**
4.	The inlet valve is stuck	Inlet may be stuck from old material. Remove inlet filter and insert inlet valve pusher tool into inlet valve. If still stuck refer to Clean the Inlet Filter **see page 14** or Replace the Inlet Valve **see page 21** *
5.	The outlet valve is stuck	Refer to Replacing Outlet Valve **see page 20**
6.	The inlet valve is worn or damaged	Refer to Cleaning or Replacing Inlet Valve **see page 21** *
7.	The PRIME/SPRAY valve is plugged	Take sprayer to Wagner Authorized Service Center

Problem C: The sprayer draws up material but the pressure drops when the gun is triggered (bad spray pattern)

	Cause	Solution
1.	Pressure too low	Turn PRIME/SPRAY knob to SPRAY - MAXIMUM PRESSURE
2.	The spray tip is worn	Replace spray tip with a new one**
3.	The inlet filter is clogged	Refer to Clean the Inlet Filter **see page 14**
4.	The spray tip is plugged	Refer to Clear the Spray Tip **see page 12**
5.	The spray gun filter is clogged	Refer Clean the Spray Gun Filter **see page 13**. Keep extra filters on hand
6.	The material is too heavy or coarse	Thin or strain the material
7.	The outlet valve assembly is dirty or worn	Refer to Replacing Outlet Valve **see page 20***
8.	The inlet valve assembly is damaged or worn	Refer to Clean or Replace Inlet Valve **see page 21** *

Problem D: The PRIME/SPRAY knob is set to SPRAY and there is flow through the material return tube

	Cause	Solution
1.	The PRIME/SPRAY valve is dirty or worn	Take sprayer to Wagner Authorized Service Center

Problem E: The spray gun leaks

	Cause	Solution
1.	Gun filter housing is loose	Tighten handle
2.	Internal parts of spray gun are worn or dirty	Take sprayer to Wagner Authorized Service Center

Problem F: The spray tip assembly leaks

	Cause	Solution
1.	The spray tip was assembled incorrectly	Check tip assembly and assemble properly **see page 18, steps 6-7**
2.	Gun seal is worn	Replace the seal*

Problem G: The spray gun will not spray

	Cause	Solution
1.	The spray tip plugged	Refer to Clear the Spray Tip **see page 12**
2.	The spray gun filter is clogged	Refer to Clean the Spray Gun Filter **see page 13**. Keep extra filters on hand
3.	The spray tip is in CLEAN position	Rotate spray tip to SPRAY position **see page 12**
4.	PRIME/SPRAY knob not set on SPRAY	Turn PRIME/SPRAY knob to SPRAY **see page 9** Getting Material to Flow

Problem H: The spray pattern is poor (tailing)

	Cause	Solution
1.	Pressure too low	Turn PRIME/SPRAY knob to SPRAY - MAXIMUM PRESSURE
2.	The spray tip is plugged	Refer to Clear the Spray Tip **see page 12**
3.	The inlet filter is clogged	Refer to Clean the Inlet Filter **see page 14**
4.	The spray gun filter is clogged	Refer to Clean the Spray Gun Filter **see page 13**. Keep extra filters on hand
5.	The spray tip is worn	Replace the spray tip
6.	The material is too thick	Thin material using appropriate thinning solution
7.	Pressure loss	Refer to Causes and Solutions for Problem C

Problem I: The spray tip will not turn

	Cause	Solution
1.	High pressure has locked the spray tip in place	Refer to Clear the Spray Tip **see page 12**

* Special repair kits with instructions are available for these procedures. Refer to the **Maintenance** section of this manual for a list of the kits and their part numbers

** Additional parts are available for this procedure. Refer to the **Parts List** (page 74) section of this manual for a list of the parts and their part numbers

Daily Maintenance

The only daily maintenance necessary is thorough cleaning. Follow the cleaning procedures in this manual.

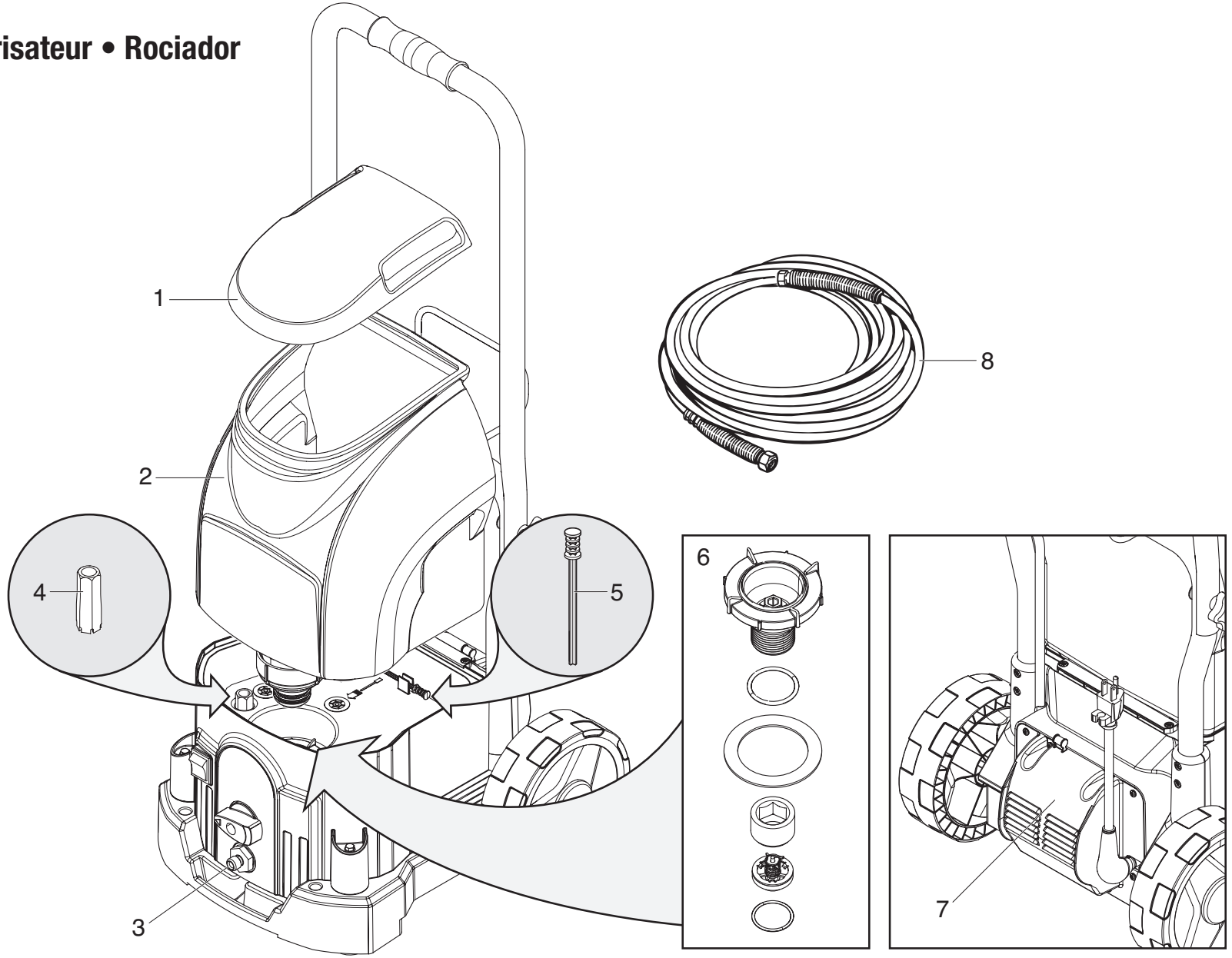
Extended Maintenance

Some pump parts eventually wear out from use and must be replaced. The following is a list of available repair kits. Pump performance is the only reliable indicator of when to replace wear parts. Refer to the Troubleshooting section for more information on when to use these kits

Kit Part #	Description
0515939	Inlet valve kit
0515940	Outlet valve kit
0501014	Saddle seat/seal kit

Parts List • Liste de Pièces • Lista de piezas

Sprayer • Pulvérisateur • Rociador



Item Article Articulo	Part No. No de piéce Pieza No.	English - Description	Français - Description	Español - Descripción	Quantity Quantite Cantidad
1	0515500A	Hopper lid	Couvercle de trémie	Tapa de la tolva	1
2	0504139	Hopper assembly	Ensemble de trémie	Ensamblaje de la tolva	1
3	0515940	Outlet valve	Soupape de sortie	Válvula de salida	1
4	0504220	Inlet valve removal tool	Outil pour soupape d'entrée	Herramienta para desmontar la válvula de entrada	1
5	0515646	Inlet valve pusher tool	Poussoir pour soupape d'entrée	Herramienta impulsora de válvula deentrada	1
6	0515939	Inlet valve kit	Trousse de joint de soupape d'entrée	Juego de sellos para la válvula de entrada	1
7	0504811	Warning label	Étiquette d'avertissement	Etiqueta de advertencia	1
8	0291002	Spray hose	Flexible de pulvérisation	Manguera de rociadora	1

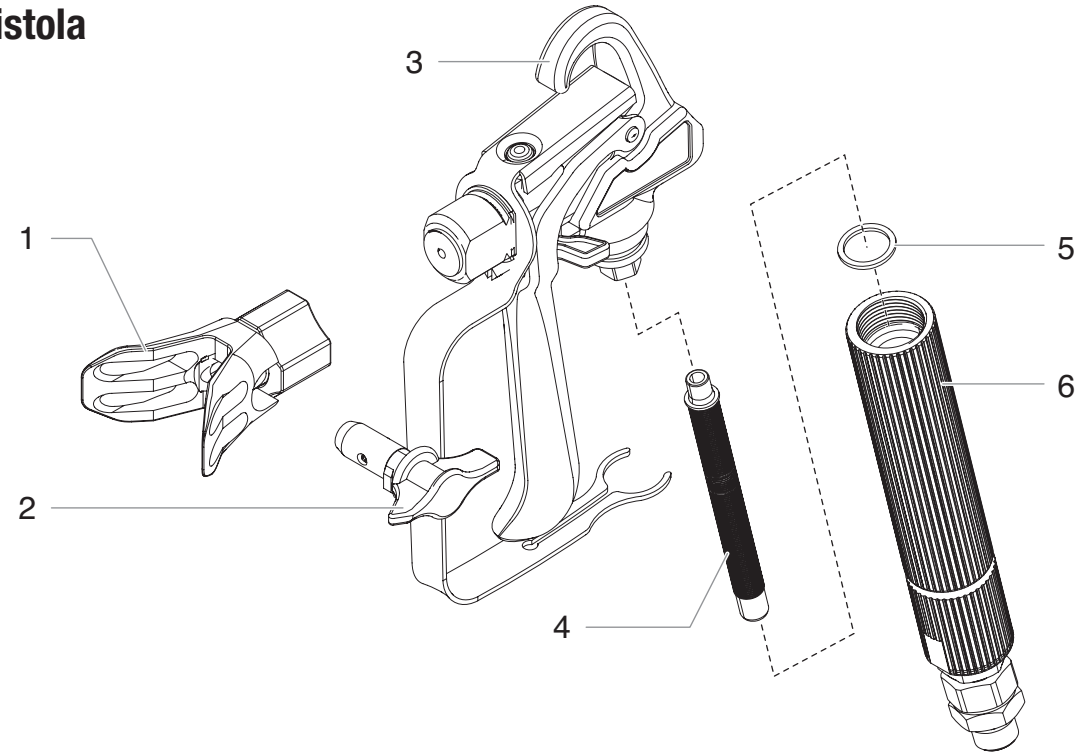
This unit contains no servicable electrical parts. Do not attempt to service yourself. Store the unit indoors with the power cord safe from damage.

Cet appareil n'a aucune pièce électrique utilisable. Ne tentez pas d'effectuer vous-même l'entretien. Entreposez l'unité à l'intérieur avec le cordon de secteur à l'abri des dommages.

Esta unidad no contiene piezas eléctricas que se puedan reparar. No intente repararlas personalmente. Guarde la unidad en interiores con el cable de alimentación a salvo de daños.

Parts List • Liste de Pièces • Lista de piezas

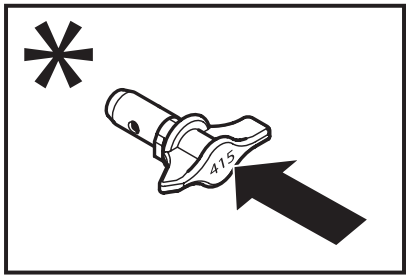
Spray Gun • Pistolet • Pistola



Item Article Articulo	Part No. No de piéce Pieza No.	English - Description	Français - Description	Español - Descripción	Quantity Quantite Cantidad
1	0501011	Guard assembly	Protège-embout	Ensamblaje de protección	1
2	0501515	Tip, 515	Buse, 515	Boquilla, 515	1
3	0515229	Complete gun assembly (Includes items 3-6)	Pistolet et ses composants (incluis les articles 3-6)	Ensamblaje de la pistola (incluye articulos 3-6)	1
4	0154675	Filter, 100 mesh (yellow, 2 pack)	Filtre, maille 100 (jaune, trousse de 2)	Filtro, malla 100 (amarillo, juego de 2)	1
5	0515228	Seal	Joint d'etanchéite	Sello	1
6	------	Filter housing	Logement de filtre	Alojamiento de filtro	1

Tip/Filter Accessories • Accessoires de buse/filtre • Accesorios de punta/filtro

English - All spray tips and filters listed below are sold separately.



Spray Tip		Spray Gun filters			Spray Material	Initial Pressure Setting
Part No.	Tip Size*	Part No.	Filter Type	Filter Color		
0501411	411	0154918	Extrafine	Red	Thin stains, sealers	Minimum
0501511	511					
0501413	413	0154675	Fine	Yellow	Thick latex paints, stains	Maximum
0501513	513					
0501415	415					
0501515	515					

Français - Tous les buses de pulvérisation et de filtres ci-dessous sont vendues séparément.

Buse		Filtre			Matière liquide à pulvériser	Initial pression
No de piéce	Dimension*	No de piéce	Type de filtre	Couleur		
0501411	411	0154918	Extra-fin	Rouge	Matière liquide à pulvériser moins épaisse	Minimale
0501511	511					
0501413	413	0154675	Fin	Jaune	Matière liquide plus épaisse	Maximale
0501513	513					
0501415	415					
0501515	515					

Español - Todas las puntas y los filtros de rociado se enumeran a continuación se venden por separado.

Punta		Filtro			Materiales que se pulverizan	Configuración inicial de presión
Pieza No.	Tamaño*	Pieza No.	Tipo de filtro	Color		
0501411	411	0154918	Extrafino	Rojo	Materiales que se pulverizan de menor densidad	Mínima
0501511	511					
0501413	413	0154675	Fino	Amarillo	Materiales más densos	Máxima
0501513	513					
0501415	415					
0501515	515					

Limited Warranty

AIRLESS PAINT SPRAY EQUIPMENT

This product, manufactured by Wagner Spray Tech Corporation (Wagner), is warranted to the original retail purchaser against defects in material and workmanship for one year from date of purchase.

This warranty does not cover damage resulting from improper use, accidents, user's negligence or normal wear. This warranty does not cover any defects or damages caused by service or repair performed by anyone other than a Wagner Authorized Service Center. This warranty does not apply to accessories.

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE IS LIMITED TO ONE YEAR FROM DATE OF PURCHASE. IF USED FOR COMMERCIAL OR RENTAL PURPOSES, THIS WARRANTY APPLIES ONLY FOR 30 DAYS FROM DATE OF PURCHASE.

WAGNER SHALL NOT IN ANY EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, WHETHER FROM BREACH OF THIS WARRANTY OR ANY OTHER REASON.

If any product is defective in material and/or workmanship during the applicable warranty period, return it with proof of purchase, transportation prepaid to any Wagner Authorized Service Center. (Service Center listing is enclosed with this product.) Wagner's Authorized Service Center will either repair or replace the product (at Wagner's option) and return it to you, postage prepaid.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION AND EXCLUSION MAY NOT APPLY TO YOU.

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

GARANTIE LIMITÉE

MATÉRIEL DE PULVÉRISATION DE PEINTURE SANS AIR

Ce produit, fabriqué par Wagner Spray Tech Corporation (Wagner), est garanti, au bénéfice de l'acheteur au détail d'origine, contre tout vice de matières et toute malfaçon pour un an à compter de la date d'achat.

La présente garantie ne s'applique pas aux dégâts entraînés par une utilisation incorrecte, par la négligence de l'usager ou par l'usure normale. La présente garantie ne s'applique pas non plus aux défectuosités ou dommages résultant de l'entretien ou de la réparation que fait une personne quelconque qui ne soit pas membre d'un centre d'entretien autorisé pour les produits Wagner. La présente garantie ne s'applique pas aux accessoires.

TOUTE GARANTIE IMPLICITE DE VENDABILITÉ OU DE CONVENANCE À UNE DESTINATION PARTICULIÈRE EST LIMITÉE À UN AN À COMPTER DE LA DATE D'ACHAT. DANS LE CAS DE LOCATION OU AUTRES APPLICATIONS PROFESSIONNELLES, CETTE GARANTIE SE LIMITE À 30 JOURS À PARTIR DE LA DATE D'ACHAT.

WAGNER NE POURRA EN AUCUN CAS ÊTRE TENUE RESPONSABLE DE DOMMAGES-INTÉRÊTS INDIRECTS OU CONSÉCUTIFS, QUE CE SOIT POUR UNE RUPTURE DE CETTE GARANTIE OU TOUTE AUTRE RAISON.

Si un produit est défectueux en ce qui concerne les matériaux ou l'exécution pendant la période de garantie applicable, vous devez le retourner, avec une preuve d'achat et frais de port payés, à n'importe quel centre d'entretien autorisé pour les produits Wagner. (Une liste de ces centres d'entretien est jointe à ce produit.) Le centre d'entretien autorisé pour les produits Wagner réparera ou remplacera le produit (à la discrétion de Wagner) et vous le retournera par la poste, avec frais de port payés.

CERTAINES PROVINCES INTERDISENT LES RESTRICTIONS SUR LA DURÉE D'UNE GARANTIE IMPLICITE OU L'EXCLUSION DES DOMMAGES ACCESSOIRES OU INDIRECTS. IL SE PEUT DONC QUE LA RESTRICTION ET L'EXCLUSION ÉNONCÉES CI-DESSUS NE S'APPLIQUENT PAS À VOUS.

LE PRÉSENTE GARANTIE VOUS ACCORDE DES DROITS JURIDIQUES SPÉCIFIQUES, ET VOUS AVEZ PEUT-ÊTRE D'AUTRES DROITS, QUI PEUVENT VARIER D'UNE PROVINCE À L'AUTRE.

GARANTÍA LIMITADA

EQUIPO DE ATOMIZACIÓN DE PINTURA SIN AIRE

Este producto, fabricado por Wagner Spray Tech Corporation (Wagner), está garantizado ante el comprador original contra defectos de materiales y mano de obra durante un año contado a partir de la fecha de compra.

Esta garantía no cubre los daños que sean resultado de un uso inapropiado, accidentes, negligencia del usuario o un desgaste normal. Esta garantía no cubre ningún defecto o daño que haya sido causado por los servicios o reparaciones llevadas a cabo por alguien que no sea un técnico del Centro de Servicio Autorizado de Wagner. Esta garantía no es válida para ningún accesorio.

CUALQUIER GARANTIA IMPLICITA DE COMERCIALIZACION O IDONEIDAD PARA CUALQUIER PROPOSITO EN PARTICULAR QUEDA LIMITADA A UN AÑO A PARTIR DE LA FECHA DE COMPRA. SI SE LE DA USO PROFESIONAL Y DE RENTA, ESTA GARANTÍA TIENE UNA DURACIÓN DE 30 DÍAS A PARTIR DE LA FECHA DE COMPRA.

WAGNER NO SERÁ EN NINGÚN CASO RESPONSABLE DE NINGÚN DAÑO INCIDENTAL O DE CONSECUENCIA DE NINGUNA CLASE, QUE RESULTE DE VIOLAR ESTA GARANTÍA O POR CUALQUIER OTRA RAZÓN.

Si algún producto llegara a tener defectos de material y/o mano de obra durante el período de validez de la garantía, devuélvalo junto con el comprobante de compra y flete previamente pagado, a cualquier Centro de Servicio Autorizado de Wagner. (La lista de Centros de Servicio viene adjunta con este producto.) El Centro de Servicio Autorizado de Wagner reparará o reemplazará el producto (según la opción de Wagner) y se lo devolverá, con porte previamente pagado.

ALGUNOS ESTADOS NO PERMITEN LIMITACIONES EN CUANTO A LA DURACIÓN DE UNA GARANTÍA IMPLÍCITA O LA EXCLUSIÓN DE DAÑOS INCIDENTALES O DE CONSECUENCIA, DE MANERA QUE LA LIMITACIÓN Y EXCLUSIÓN ANTERIORES PODRÍAN NO SER VÁLIDAS PARA USTED.

ESTA GARANTÍA LE CONCEDE DERECHOS LEGALES ESPECÍFICOS, PERO USTED PODRÍA TENER DERECHO A OTROS, LOS CUALES VARÍAN DE UN ESTADO A OTRO.

U.S. Patent Nos. 6,933,634
7,018,181
8,118,070